Santa Clara Valley Water District

Fiscal Year 2015-19
Capital Improvement Plan

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May 13, 2014

Santa Clara Valley
Water District

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OVERVIEW

The Santa Clara Valley Water District's (District) Fiscal Year 2015-19 Five-Year Capital Improvement Program (CIP) is a projection of the District's capital funding for planned capital projects from Fiscal Year 2014-15 through Fiscal Year 2018-19. The purpose of the CIP is to document planned District projects to help integrate District work with the larger community by aligning District planning with other local agency planning efforts.

The District's CIP is developed following the guidelines of Government Code (GC) § 65403 which governs the development and annual review of Capital Improvement Programs developed by special districts in the State of California. State law requires that the program be reviewed and updated annually. It also requires circulation of the document to all agencies having land use authority within the District boundaries prior to adoption of the program. This document is intended to provide the information necessary to facilitate planning and construction of water related infrastructure to meet the needs of Santa Clara County.

SANTA CLARA VALLEY WATER

Mission

The mission of the district is to provide Silicon Valley safe, clean water for a healthy life, environment, and economy.

The CIP is prepared in accordance with the guidelines established by the Government Finance Officer Association (GFOA). Capital projects in this document are defined by both the accounting criteria for capital investment and Public Contract Code definition of public works. They exceed $50,000 in cost, have long-term life spans and are generally nonrecurring. They usually fall within one of the following six categories.

1. Acquisition of land for public purpose
2. Construction of a significant facility, i.e. a flood protection facility, a water treatment facility, or a building
3. Addition to or expansion of an existing facility
4. Nonrecurring rehabilitation or major repair to all or part of a facility provided the total cost is more than $50,000
5. Specific planning, engineering study, or design work related to an individual project which falls within the above categories
6. Significant one-time investment in tangible goods of any nature, the benefit of which will accrue over several years. Examples include items such as large initial investments or improvements in technology or the purchase of a new telephone system.

The CIP includes several Small Capital Improvement Projects in the various cost centers. These projects will be ongoing and will be used to fund multiple small projects to undertake repairs, replacements, and minor modifications to existing water utility, watershed or campus facilities. Small Capital Improvements generally meet the following criteria:

1. Project cost is less than $1.5 million
2. Project can be completed within 2 fiscal years
3. Rights-of-Way acquisition is not required.

The proposed funding for the Water Supply Small Capital Improvement projects is anticipated to vary each year based on the work identified in the Water Utility Asset Management Plan. The Almaden Campus Small Capital Improvements project and Small Capital Improvements-Watersheds project are funded at a flat rate each year. Unspent funds in these projects will not carry forward from previous years.

There are some miscellaneous capital expenditures incurred by the District that are not captured in the CIP. These capital expenditures include certain components of water purchases, indirect costs to manage and train staff that are fully engaged in capital work, and routine replacement of computers, vehicles and large equipment.

ALIGNMENT WITH ENDS POLICIES

The District plans, manages and carries out capital improvements to comply with the Ends Policies and Executive Limitations established by its Board of Directors. Under the District's Policy Governance Model, Ends Policies describe the outcomes or results to be achieved by District staff. Balancing the Ends Policies are the Executive Limitations, which set limits on staff activities in fulfilling the Ends.

Program plans or master plans are developed to achieve the results established by the Ends Policies and to further define the goals and objectives of each Ends Policy. The Board either formally approves the plans or provides direction to staff, confirming the goals and objectives. These plans then become the basis for staff to propose and develop individual capital projects. Alignment of the CIP with program or master plans provides a direct link to Ends Policies and ensures the District's long-term capital investments are planned and executed according to the Board's priorities. Three Ends Policies directly drive program or master plans and the types of capital improvements described in the CIP.

- Ends Policy E-2 "There is a reliable, clean water supply for current and future generations.
- Ends Policy E-3 "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations."
  - E-3.1 "Provide natural flood protection for residents, businesses, and visitors"
  - E-3.2 "Reduce potential for flood damages"
- Ends Policy E-4 "There is water resources stewardship to protect and enhance watersheds and natural resources and to improve the quality of life in Santa Clara County."

(See flowchart "CIP Process Alignment with Ends Policies" on page I-5)

CIP PLANNING PROCESS

The District conducts an annual planning process for its Capital Improvement Program. The purpose of the planning process is to ensure the capital projects included in the CIP:

- meet the Board's priorities and contribute to the objectives of the District's various programs
- have identified funding for the duration of the projects
- are coordinated with the local jurisdiction's General Plans.

The CIP planning process is carried out in accordance with the following Executive Limitations.

- Executive Limitation EL-4.3.1., "A BAO shall produce an annual Rolling Five-Year Capital Improvement Plan with the first year serving as the adopted capital budget and the remaining years in place as a projected capital funding plan."
- Executive Limitation EL-4.4.1., "A BAO shall demonstrate to the Board the planned expenditures for the identified and selected capital projects in the Rolling Five-Year Capital Improvement Plan are alligned with the Board's capital priorities."

The annual CIP process is the responsibility of the CIP Committee comprised of division managers, with the responsibility to initiate or implement capital projects. The detailed process is a documented ISO procedure. It includes the following key steps:

- Management review and approval, to ensure staff proposed projects are aligned with Board policies and approved program plans
- Validation of projects to ensure there is a business case for doing the project and that a capital investment is the best solution
- Prioritization of all projects, including continuing and newly proposed projects, to ensure the projects in the CIP reflect Board priorities
- Financial analysis, to determine the capacity of the District's capital funding sources to fund the proposed capital projects

- Outreach to local jurisdictions within Santa Clara County, to coordinate the District's Capital Improvement Program with their General Plans
- Board review and direction at appropriate steps, to ensure the CIP reflects Board policies and priorities
- Board adoption of the CIP plan

The annual CIP planning process takes approximately 10 months to complete. The process starts with collecting information on proposed new capital projects in July, followed by preliminary scoping, priority and financial analyses to produce a Draft CIP in February. The Draft CIP serves as a multi-year plan, together with other long-term planning efforts of the District, is the basis for the budget for the following fiscal year. This Draft CIP plan is also reviewed by local jurisdictions for consistency with their General Plans. While the CIP is being reviewed by the cities and County the budget is being reviewed and finalized. The Board concludes the outreach on the CIP with a public hearing. The first year of the CIP is reconciled with the budget and the two documents are presented to the board for formal adoption in May.

Board Direction and CIP Outreach

The Board has many opportunities each year to provide direction on projects contained in the Capital Improvement Program. The CIP is developed in parallel with the budget and the water rates. It is presented to the Board on three separate occasions for review and input. Early in the process the project list is presented to the board so they can provide direction to staff, ensuring that the document is developed in accordance with board priorities. The direction received is used to develop the Draft CIP which is reviewed and accepted by the Board before staff is authorized to release the document for public review. The CIP is adopted by the Board in May following a public hearing.

On January 14, 2014 the FY 2015-19 project list and prioritization criteria were reviewed and endorsed by the Board. The following are highlights of changes from the previous year that have been approved as the basis for the FY 2015-19 CIP:

- To fully fund the Water Supply projects in the FY 2015-19 CIP an increase in the groundwater production charges of 9.9% in Zone W-2 (North County) and 4.6% in Zone W-5 (South County) will be required in FY 2014-15.
- Higher than projected property tax revenue improved the financial outlook for the Watershed Stream Stewardship Fund and General Fund. This allowed additional funds to be allocated to the Upper Llagas Creek project.
- Eleven new projects with a combined cost of $498 million were added to the CIP they are; Wolfe Road Recyled Water Pipeline, Coyote Pumping Plant Warehouse, Water Supply Infrastructure Master Plan, South County Recycled Water Phase 2, Small Capital Improvements-Watersheds, San Tomas Creek Quito Road Bridge, Singleton Road Fish Passage Improvements, Headquarters Operations Building, Information Technology Disaster Recovery, Campus Computer Network Modernization, and Water Utility Computer Network Modernization.
- The Water Supply Infrastructure Maser Plan will be implemented thru a number of projects to provide for long term water supply reliability.

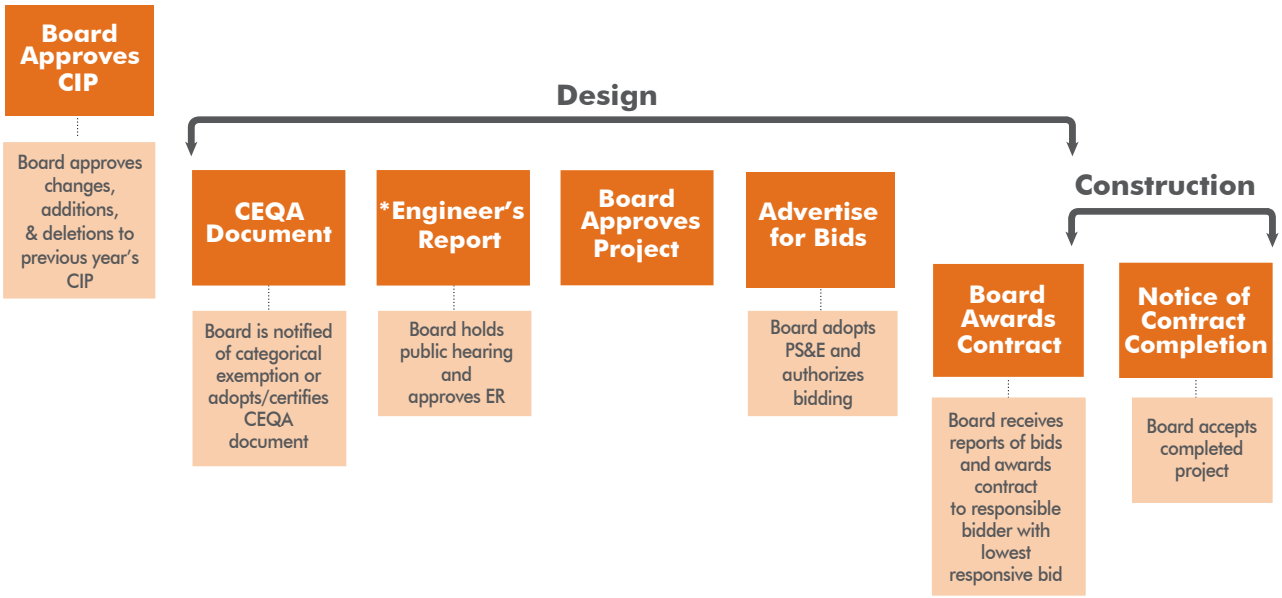
Overview

The Information Techology Capital Fund was created, it accounts for the costs to acquire, and install capital information technology projects with District-wide benefit. Projects include acquisition and replacement of computers, networks, and communications systems as well as major investments in enterprise software systems.

Each project in the CIP goes through a planning phase, design phase and construction phase.

The Board may determine to not implement a project based on various considerations such as financial constraints, environmental impacts or community desire during a project's planning or design phases. Approval of a capital project by the Board occurs at the end of the design phase when the Board approves the plans and specifications to solicit bids for construction of the project.

OPPORTUNITIES FOR BOARD DIRECTION ON CAPITAL PROJECTS



** Board approval of the Engineer's Report is required only on projects with zone funding.*

Construction of the storage tank at the Silicon Valley Advanced Water Purification Center

CIP PROCESS ALIGNMENT WITH ENDS POLICIES

Ends Policy E-2
There is a reliable, clean water supply for current and future generations.

→

Program Plans or Master Plans
- **1990** SCVWD Action Plan for reducing disinfection by-product (Board approved)
- Integrated Water Resource Plan (Board Work Studies)
- **1999** Producer-Wholesaler Agreement for Supply of Recycled Water between SCRWA and the District (Board approved)
- **2004** Santa Clara Valley Water District Asset Management Program Implementation Plan
- **2005** Urban Water Management Plan (Board approved)
- **2005** Dam Safety Plan
- **2005** Water Infrastructure Reliability Plan
- **2006** South County Water Recycling MasterPlan (Board approved)
- **2012** Safe, Clean Water Program (Board/Voter approved)
- **2012** Water Supply Infrastructure Master Plan (Board approved)

→

FY 2015-2019 CIP
- **33 - Water Supply Capital Projects**

Ends Policy E-3.1 & E-3.2
Provide natural flood protection for residents, businesses, and visitors. Reduce potential for flood damages.

→

Program Plans or Master Plans
- **1982, 1986, 1990** Benefit Assessment Program (Board approved)
- **2000** Clean, Safe Creek Program (Board/Voter approved)
- **2001** Stream Maintenance Program (Board approved) Annual Watershed Facility Inspection Program (for all watersheds)
- Feasibility Cost Sharing Agreements with the US Army Corps of Engineers
- **2012** Safe, Clean Water Program (Board/Voter approved)

→

FY 2015-2019 CIP
- **17 - Flood Protection Capital Projects**

Ends Policy E-4
There is water resources stewardship to protect and enhance watersheds and natural resources and to improve the quality of life in Santa Clara County.

→

Program Plans or Master Plans
- CEQA commitments
- Regulatory permitting commitments
- Enhancement Program per Clean Safe Creeks Program (Board/Voter approved)
- Enhancement opportunities determined appropriate by the Board
  - Fish and Aquatic Habitat Collaborative Effort
  - Natural Resource Damage Assessment
  - Other
- **2012** Safe, Clean Water Program (Board/Voter approved)

→

FY 2015-2019 CIP
- **8 - Water Resources Stewardship Projects**

Strategic Support

→

Program Plans or Master Plans
- **1990** Facilities Master Plan - Site Analysis Report (Board approved)
- **2005** Needs Assessment and Plan Feasibility Study
- **2012** Campus Master Plan (Board approved)

→

FY 2015-2019 CIP
- **3 - Buildings and Grounds Capital Projects**

Strategic Support

→

Program Plans or Master Plans
- **2001** Information System Master Plan
- **2003** Enterprise-wide Master Communication Plan
- **2012** Information Systems Master Plan

→

FY 2015-2019 CIP
- **4 - Information Technology Capital Projects**

CIP Prioritization and Financial Analyses

FISCAL YEAR 2015-19 CIP SUMMARY

The recommended CIP for FY 2015-19 includes 65 priority projects to implement the goals and objectives of the District's program plans and master plans. These projects are grouped into five types of improvements.

- *Water Supply Capital Improvements*
  33 projects contributing to Ends Policy E-2
- *Flood Protection Capital Improvements*
  17 projects contributing to Ends Policy E-3
- *Water Resources Stewardship Capital Improvements*
  8 projects contributing to Ends Policy E-4
- *Buildings and Grounds Capital Improvements*
  3 project supporting District efforts to achieve the Ends Policies
- *Information Technology Capital Improvements*
  4 projects supporting District efforts to achieve the Ends Policies

Each of the 65 projects in the CIP has an identified funding source based on the type of improvement or function of the project.

The principal sources of revenue for the District are property taxes, a special parcel tax and water production charges for use of groundwater, treated water, and surface water. These revenues are organized into eight funds. Seven of the eight funds have a specific purpose and only finance the operational and capital expenditures related to that purpose. In 2008 the Board decided to combine the individual watershed funds into a county-wide watershed and stream stewardship fund to send the message that the watershed activities are managed for the benefit of the county. This also streamlines most tracking and accounting activities for staff. The District continues to receive a small amount of revenue from benefit assessments that were approved by voters in the 80s and 90s. These funds are dedicated to specific watersheds and the accounting practices to ensure that they are spent and accounted for appropriately have been kept in place. As shown in the chart below, four of the eight funds are used to finance the five types of capital improvements in the CIP.

In November 2012 the voters overwhelmingly approved the Safe, Clean Water and Natural Flood Protection Program (Safe, Clean Water). This program replaces the Clean, Safe Creeks Program that would sunset in 2016. Safe, Clean Water has an expanded focus that includes funding for important Water Utility projects as well as additional funding for Flood Protection and Water Resources Stewardship projects. The Safe, Clean Water program will provide a total of $548 million of special parcel tax revenue for operations and capital projects.

The District aggressively pursues external funding to supplement its principal revenue when practical. In recent years District projects benefited from $43.4 million in American Recovery and Reinvestment Act (ARRA) funding. A number of District projects are receiving substantial State funding through grants from the Department of Water Resources (DWR) either directly or through local partner agencies. For a complete listing of grants and partnerships see Appendix C.

- $5.4 million for Silicon Valley Advanced Water Purification Center from DWR
- $25 million for Lower Silver Creek from DWR
- $8 million for San Francisquito Creek through the Joint Powers Authority
- $30 million Upper Berryessa, Lower Berryessa, and Lower Penitencia

DISTRICT PRIORITIES	District Funds				
Type of Improvement	Water Utility Enterprise Fund	Watershed Stream Stewardship Fund	General Fund	Safe, Clean Water Fund	Information Technology
Water Supply	●			●	
Flood Protection		●		●	
Water Resources Stewardship	●	●		●	
Buildings and Grounds			●		
Information Technology	●		●		●

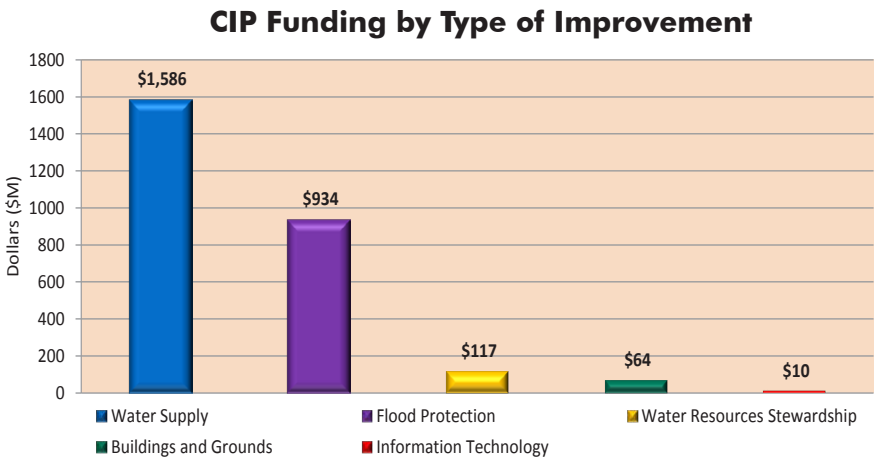
This chart identifies which types of improvement are associated with each of the District's five capital funds.

Overview

The estimated total funding required to implement the 65 projects defined in the CIP is $3 billion. The District has been and continues to be successful in leveraging funding for its capital projects through partnerships with federal, state, and local agencies. Of the $3 billion total funding, $559 million is expected from the District's various partners, such as the U.S. Army Corps of Engineers (USACE), and $2.465 billion from the District. A list of projects that are funded cooperatively with the District's partners is summarized in Appendix C. Funding from partners for the cooperative capital projects generally come in two ways:

- Funds that are made available by the partners when needed, or
- Funds that are reimbursed by the partners after the District advances the needed funds.

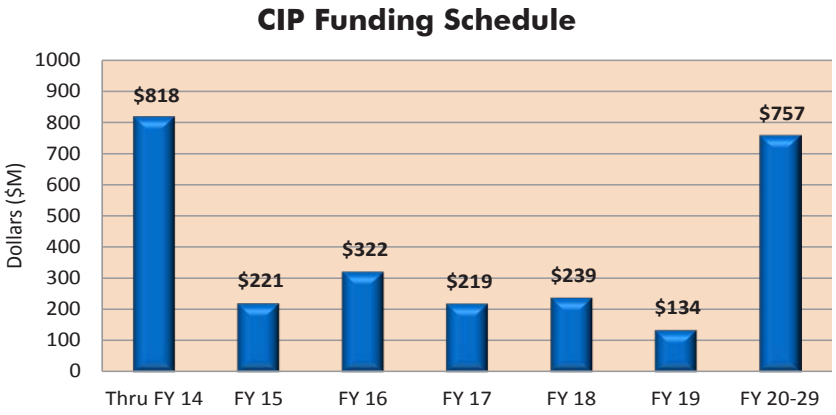
Of the $559 million that is expected from the District's partners, $245 million is advanced by the District and reimbursed later. This $245 million is included in the CIP, and increases the District's total funding requirement from $2.465 billion to $2.710 billion, to ensure that the District has adequate funding to advance the reimbursement.



The chart above shows the distribution by type of improvement, of the $2.710 billion total CIP funding as planned in the FY 2015-19 CIP.

The chart above shows how the $2.710 billion to implement the 65 projects is allocated to each of the five Types of Improvements.

Of the $2.710 billion in total funding for the 65 projects identified in the CIP, the Board has appropriated $818 million in prior years (through June 30, 2014 the end of Fiscal Year 2013-14). This year's CIP process identified additional funding needs of $1.892 billion to complete the projects in the CIP, with $221 million allocated in Fiscal Year 2014-15 and a total of $1.67 billion proposed for future years. The table shown on page I-8 breaks down the fiscal year total by the five types of improvement and by applicable funding sources.



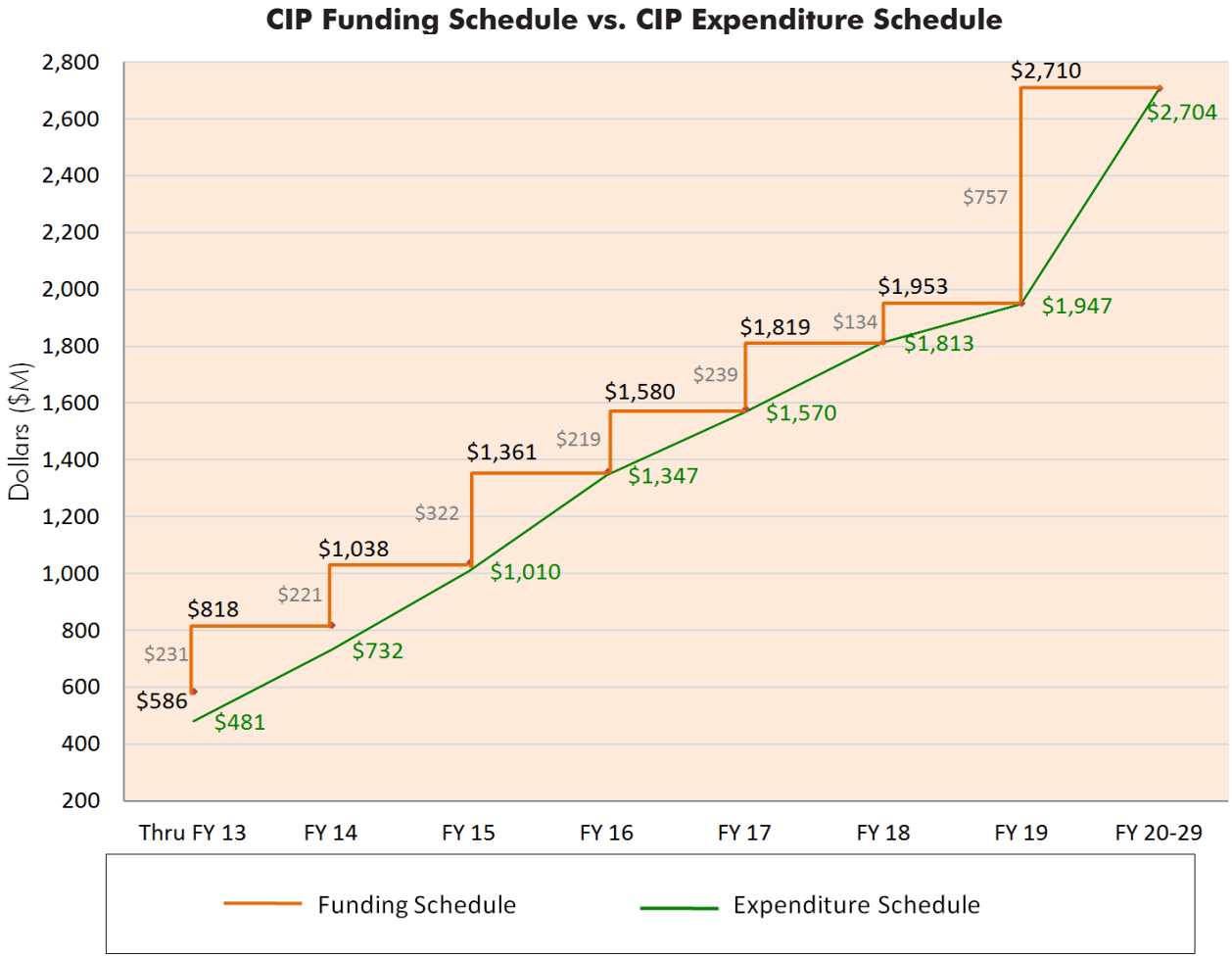
The chart above shows how the $2.710 billion is distributed by fiscal year.

CIP Funding Schedule by Type of Improvement and Funding Sources ($K)

	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
WATER SUPPLY										
Water Utility Enterprise Fund	178,333	95,805	11,846	107,227	134,315	143,730	177,465	95,040	627,889	1,559,804
Safe, Clean Water and Natural Flood Protection Fund	-	-	-	630	1,408	10,652	138	-	12,900	25,728
Water Supply Total	178,333	95,805	11,846	107,857	135,723	154,382	177,603	95,040	640,789	1,585,532
FLOOD PROTECTION										
Watershed Stream Stewardship Fund	186,796	16,357	16,551	38,466	16,527	2,799	1,089	1,016	107	263,157
Safe, Clean Water and Natural Flood Protection Fund	199,148	106,339	52,401	56,603	150,643	49,225	25,182	23,959	59,648	670,747
Flood Protection Total	385,944	122,696	68,952	95,069	167,170	52,024	26,271	24,975	59,755	933,904
WATER RESOURCES STEWARDSHIP										
Water Utility Enterprise Fund	6,393	-	230	7	1,853	3,282	649	675	8,388	21,246
Watershed Stream Stewardship Fund	6,027	2,337	3,427	-	9,307	1,346	1,117	1,089	8,413	29,636
Safe, Clean Water and Natural Flood Protection Fund	9,448	2,997	1,172	4,440	3,821	2,932	17,157	10,292	14,841	65,928
Mitigation Total	21,868	5,334	4,829	4,447	14,981	7,560	18,923	12,056	31,641	116,810
BUILDINGS AND GROUNDS										
General Fund	125	3,640	761	9,876	3,510	4,449	15,455	2,231	24,961	64,247
Buildings and Grounds Total	125	3,640	761	9,876	3,510	4,449	15,455	2,231	24,961	64,247
INFORMATION TECHNOLOGY										
Water Utility Enterprise Fund	-	-	-	473	-	-	-	-	-	473
General Fund	-	4,099	-	-	-	-	-	-	-	4,099
Information Technology Fund	-	-	-	2,916	790	980	292	-	-	4,978
Information Technology Total	-	4,099	-	3,389	790	980	292	-	-	9,550
TOTAL	586,270	231,574	86,388	220,638	322,174	219,395	238,544	134,302	757,146	2,710,043
CUMULATIVE TOTAL	586,270	817,844		1,038,482	1,360,656	1,580,051	1,818,595	1,952,897	2,710,043	

FY 2013-14 Funds to be reappropriated

As shown in the table, CIP Funding Schedule by Type of Improvement and Funding Sources (on the previous page): approximately $86 million of the already appropriated $818 million is not spent and is reappropriated to Fiscal Year 2014-15 for continued use in those same projects in amounts consistent with the project expenditure schedule for Fiscal Year 2014-15. The following chart explains the relationship between the CIP Funding Schedule and Expenditure Schedule.



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Water Supply Capital Improvements

WATER SUPPLY OVERVIEW

The District manages and operates a complex and integrated water supply infrastructure, including storage, transmission, treatment, and recycled water facilities, to meet the Board's Ends Policy E–2, "There is a reliable, clean water supply for current and future generations."

Storage Facilities

- 10 surface reservoirs
- 393 acres of recharge ponds
- 76 miles of in-stream recharge
- Ground water basins

Transmission Facilities

- 142 miles of pipelines
- 3 pump stations

Treatment Facilities

- 3 treatment plants

Recycled Water Facilities

- Silicon Valley Advanced Water Purification Center
- South County Recycled Water Distribution System

Planning, design and construction of the above facilities took decades of effort. Beginning in the 1930s, reservoirs and recharge ponds were built to halt depletion of the ground water basin and subsidence, followed by pipelines and treatment plants to bring in state and federal water to meet growing water demands in the County.

In the early 1990s, the District embarked on new and challenging capital improvements to upgrade its three drinking water treatment plants in order to meet new Environmental Protection Agency rules for improved water quality required by 1996 amendments to the Safe Drinking Water Act. Fifteen years of effort and capital funding brought the upgrades at Penitencia and Santa Teresa Water Treatment Plants to completion. Delivery of ozonated water produced at these two treatment plants began in 2006.

Water delivered from the Rinconada plant continues to meet the stricter water quality standards even though the plant was built in the 1960's and is showing its age. Projects are underway to make significant upgrades to the Rinconada Water Treatment Plant (RWTP) facility and processes for future reliability. Construction of the first of three major projects started in the fall of 2013. Over the next six years, approximately $190 million in construction will take place at RWTP.

With a significant portion of the Water Supply infrastructure approaching forty to fifty years of age, maintaining and upgrading the existing infrastructure to ensure each facility functions as intended for its useful life became the focus of the Water Supply Capital Improvement Program in recent years, as shown in the CIP.

The District owns and operates ten major dams. While these dams provide water supply, flood management, recreation, and environmental flow benefits, there are consequences and costs for dam ownership. Knowledge of seismic stability design and construction was very rudimentary during the design and construction of District dams in the 1930's and 50's. Both liquefaction of dam embankments and foundations and embankment stability is critical for seismic stability. Several of the District reservoirs have operating restrictions imposed by the Department of Safety of Dams (DSOD) while an engineering analysis of how the District's dams would perform under a major seismic event is completed and appropriate corrective actions are implemented.

On November 26, 2010 the Board was informed that Anderson Dam will require a seismic retrofit and the operating restriction was increased to 45 feet below the crest of the dam. Since this briefing, the consultant has determind that a magnitude 7.2 Maximum Credible Earthquake on nearby Calaveras Fault could cause a deformation (slumping) of the dam crest by 25 feet. The Anderson Dam Seismic Retrofit Project ($193 million) was initiated in January 2011.

The District completed a seismic stability evaluation of Almaden, Calero, and Guadalupe Dams in late 2010. Almaden Dam was found to be seismically stable; however both Calero and Guadalupe Dams will require seismic retrofitting to meet DSOD performance criteria. A project was initiated in fiscal year 2013 to address the Calero and Guadalupe Dams retrofit needs. A separate capital project to address outlet and spillway improvements at Almaden Dam is continuing. Most recently, seismic stability evaluations were conducted at Lenihan and Stevens Creek Dams. Both were found to be seismically stable.

Major Capital Improvements Identified in CIP

Storage:

- Anderson Dam Seismic Retrofit
- Calero and Guadalupe Dams Seismic Retrofits
- Almaden Dam Improvements

Transmission:

- 5-Year Pipeline Rehabilitation
- Main and Madrone Pipeline Rehabilitation
- Penitencia Delivery Main/Force Main Seismic Retrofit
- TC HCP Implementation Fund

Treatment:

- Infrastructure Reliability
- IRP2 WTP Operations Buildings Seismic Retrofit
- RWTP FRP Residuals Management Modifications
- RWTP Reliability Improvement

Recycled Water:

- Silicon Valley Advanced Water Purification Center
- South County Recycled Water Pipeline
- Water Supply Infrastructure Master Plan

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to ensure that the new water supply projects proposed to be added to the Fiscal Year 2015-19 CIP reflect the Board's priorities. The priority criteria used to evaluate these projects is included in Appendix A.

A financial analysis of the Water Utility Enterprise Fund, the funding source for water supply capital improvements, was performed to determine the limitations to funding the projects proposed for the Fiscal Year 2015-19 capital program. Results of this year's prioritization process and financial analysis are summarized in Appendix B.

Based on the feedback from the FY 2006-07 CIP and Board direction, a concerted effort was made to develop a multi-year water charge structure that would support the priority work of the water utility business. Staff analyzed both immediate requirements and anticipated future needs to support operations and the continued appropriations for capital investment needed to maintain infrastructure and comply with water quality regulations. Each year staff reviews Board priorities, the financial needs of the water utility enterprise fund, current political and economic factors and updates the multi-year structure. The rate structure for the first year is recommended to the Board for adoption during the annual rate setting process.

While the District has one Water Utility fund, the District has two zones of benefit for the purposes of setting groundwater production charges. The North County Zone is very different from the South County Zone in that the water infrastructure is substantially separate and distinct with an entirely different cost of providing service. For example the north zone overlays the Santa Clara groundwater subbasin and is much more densely populated requiring a large amount of imported water from outside the county to provide a reliable water supply. To receive, filter and distribute the imported water, the District chose to build 3 water treatment plants and a network of raw water and treated water distribution pipelines many decades ago. The south zone on the other hand overlays the Coyote and Llagas groundwater subbasins and is more sparsely populated. South County relies primarily on groundwater to serve roughly 50% agricultural and 50% non-agricultural water needs. A small amount of recycled water is served in the Gilroy area. No treated water is served in South County. A small amount of

imported water is used to recharge the groundwater subbasins in the South County. The groundwater subbasins have the ability to absorb the recharge and remain healthy under normal water usage levels unlike the North County where several sections of the groundwater basin are very sensitive, which is the main reason for building the treatment plant system long ago.

To fully fund the Water Supply projects in the FY 2015-19 CIP an increase in the groundwater production charges of 9.9% in Zone W-2 (North County) and 4.6% in Zone W-5 (South County) will be required in FY 2014-15. Preliminary projections indicate the need for annual rate increases in subsequent years ranging from 9% to 10% for North County and 3% to 4% for South County.

The majority of capital projects included in the 5-Year CIP are related to asset management which replaces aging equipment and facilities, or infrastructure reliability, which protects the county's baseline water supply. The Water Supply and Infrastructure Master Plan was completed and adopted by the Board in 2012. It recommends: 1) investing in existing supplies and infrastructure; 2) optimizing the use of existing supplies and infrastructure; and 3) increasing recycling and conservation. The capital components of the Water Supply Master Plan are funded in the 2015-19 CIP.

The District is currently engaged in several critical studies related to understanding the conditions of various existing water supply facilities and meeting future water supply needs of the county including South Bay Water Recycling Strategic Master Plan, San Luis Low Point Improvement Project, and collaborating with Sunnyvale on their Recycled Water Master Plan. These studies will likely identify a number of new capital projects with significant capital investments. Following is a preliminary list of projects identified by these studies:

- San Luis Low Point Solution ($141M)
- Construct Diversion to Maximize Recharge Capability at Church Avenue ($4M)
- Expansion of recycled water facilities in North County (South Bay Water Recycling and Sunnyvale Areas)

Water Supply Capital Improvements

The following table is a project funding schedule for water supply capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2013-14.

Water Supply Capital Improvements

Project Number	PROJECT NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
	STORAGE FACILITY										
91854001	Almaden Dam Improvements	4,365	1,782	98	1,213	12,222	9,426	6,029	148	-	35,185
91864005	Anderson Dam Seismic Retrofit	10,481	12,620	841	6,460	21,308	38,267	60,704	43,302	127	193,269
91084020	Calero and Guadalupe Dams Seismic Retrofits	2,369	4,427	20	7,270	1,533	14,428	57,865	10,950	620	99,462
91234011	Coyote Pumping Plant Warehouse	-	-	-	416	216	2,595	-	-	-	3,227
91084019	Dam Safety Program Seismic Stability	9,899	2,389	1,276	6,524	-	-	-	-	-	18,812
91214007	San Luis Reservoir Low Point Improvement	15,247	-	1,290	-	-	-	-	-	-	15,247
91214010s	Small Capital Improvements, San Felipe Reach 1-3	n/a	4,659	-	1,547	923	5,315	585	1,439	24,602	39,070
	TRANSMISSION FACILITY										
95084001	5-Year Pipeline Rehabilitation	4,133	4,931	-	5,794	4,609	4,922	-	-	-	24,389
92404003	Alamitos Diversion Dam Improvements	2,962	-	2,124	-	-	-	309	-	-	3,271
92484003	Coyote Diversion Dam Improvements	709	-	387	-	-	601	1,187	-	-	2,497
26C40349	IRP2 Additional Line Valves	-	-	-	-	-	-	-	-	12,900	12,900
26564001s	Main & Madrone Pipelines Restoration	-	-	-	630	1,408	13,921	138	-	-	16,097
92144001	Pacheco/Santa Clara Conduit Right of Way Acquisition	1,555	1,009	1,418	178	64	105	-	-	-	2,911
94384002s	Penitencia Delivery Main/Force Main Seismic Retrofit	1,134	761	216	672	11,118	-	-	-	-	13,685
92374005	SCADA Remote Architecture & Communications Upgrade	-	370	345	-	28	405	818	776	3,780	6,177
92764009	Small Capital Improvements, Raw Water Transmission	n/a	43	-	468	191	-	124	-	3,196	4,022
94764006	Small Capital Improvements, Treated Water Transmission	n/a	-	-	-	56	-	-	91	-	147
92C40357	TC HCP Implementation Fund	-	-	-	-	1,604	4,472	4,112	14,423	120,497	145,108
	TREATMENT FACILITY										
93084011	Fluoridation at WTPs	-	357	-	791	5,074	512	153	-	-	6,887
93504001	Infrastructure Reliability	385	1,314	125	474	425	1,490	1,550	4,084	12,065	21,787
93764003	IRP2 WTP Ops Bldgs Seismic Retrofit	4,314	11,705	-	2,894	521	101	-	-	-	19,535
93234043	PWTP Clearwell Recoating & Repair	1,594	-	-	2,922	375	48	-	-	-	4,939
93234042	PWTP Water Pumps Modification	2,745	291	2,069	151	346	85	-	-	-	3,618
93294051	RWTP FRP Residuals Management Modifications	3,891	21,125	730	1,038	919	264	-	-	-	27,237
93294057	RWTP Reliability Improvement	11,190	7,923	7	46,394	59,532	54,818	42,489	146	-	222,492
93294056	RWTP Treated Water Valves Upgrade	1,828	6,117	712	130	617	79	-	-	-	8,771
93764004	Small Capital Improvements, Water Treatment	n/a	3,299	-	2,175	1,835	1,830	1,540	3,651	32,095	46,425
93284030	STWTP Incompatible Materials	12,412	1,183	42	157	-	-	-	-	-	13,752
94084005	Water Protection	9,670	729	-	62	-	-	-	-	-	10,461
	RECYCLED WATER FACILITY										
91184008	Silicon Valley Advanced Water Purification Center	67,424	3,124	-	1,477	-	-	-	-	-	72,025
91094007s	South County Recycled Water Pipeline	10,026	4,847	-	8,212	8,933	456	-	-	-	32,474
91C40368s	Water Supply Infrastructure Master Plan Implementation	-	-	-	-	-	-	-	16,030	430,907	446,937
91244001	Wolfe Road Recycled Water Pipeline	-	800	146	9,808	1,866	242	-	-	-	12,716
	TOTAL	178,333	95,805	11,846	107,857	135,723	154,382	177,603	95,040	640,789	1,585,532

FY 2013-14 Funds to be reappropriated

Water Supply Capital Improvements

The following table shows funding requirements from each funding source for water supply capital.

Water Supply - Funding Source ($K)

Fund Number	FUND NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
61	Water Utility Enterprise Fund	178,333	95,805	11,846	107,227	134,315	143,730	177,465	95,040	627,889	1,559,804
26	Safe, Clean Water and Natural Flood Protection Fund	-	-	-	630	1,408	10,652	138	-	12,900	25,728
	TOTAL	178,333	95,805	11,846	107,857	135,723	154,382	177,603	95,040	640,789	1,585,532

FY 2013-14 Funds to be reappropriated

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Project	**Almaden Dam Improvements**
Program	Water Supply – Storage
Priority No.	40
Project No.	91854001
District Contact	Katherine Oven koven@valleywater.org

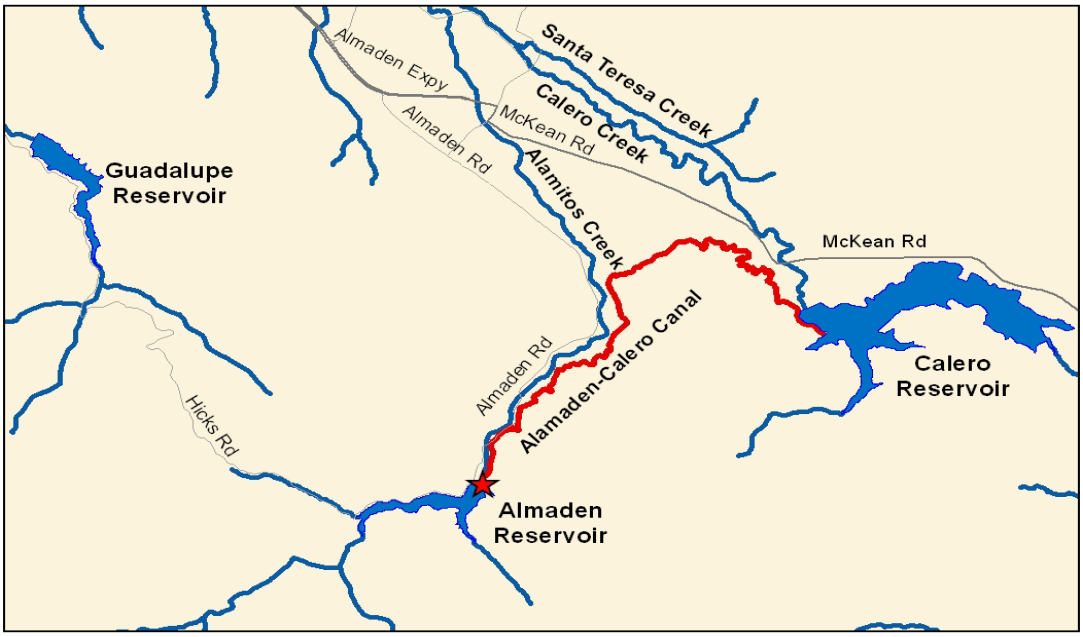
Aerial view of Almaden Dam and spillway, with a portion of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Almaden Dam Outlet Works to accomplish the following objectives:

- Modify or construct a new intake structure, capable of releasing 246 cubic feet-per-second (cfs) of water without flushing of sediments through the outlet works.
- Correct existing problems with the outlet energy dissipation structure, piping and valves.
- Restore operational capacity to the Almaden-Calero Canal and stabilize and improve maintenance access.

PROJECT LOCATION

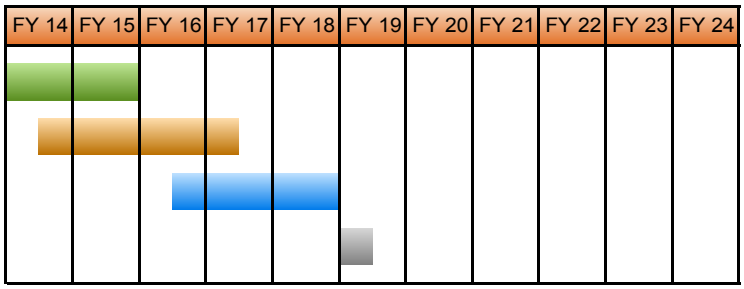


Project Location

SCHEDULE & STATUS

July 1995 to December 2018

Phase	Cost
Plan	5,741
Design	3,081
Construct	24,338
Closeout	302
	33,462



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91854001-Almaden Dam Improvements	4,165	1,884	1,311	11,681	8,787	5,512	122	0	33,462
with inflation	4,165	1,884	1,311	12,222	9,426	6,029	148	0	35,185

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91854001-Almaden Dam Improvements	4,365	1,782	98	1,213	12,222	9,426	6,029	148	0	35,185

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	35,185
Other Funding Source	0
Total	**35,185**

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $2,000 per year, beginning in FY 2020. Manually flushing the control valves during the winter months to remove silt will no longer be required.

USEFUL LIFE: 50+ Years

Project	**Anderson Dam Seismic Retrofit**
Program	Water Supply – Storage
Priority No.	97
Project No.	91864005
District Contact	Katherine Oven koven@valleywater.org

Aerial view of Anderson Dam and spillway, with a portion of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs seismic retrofit or replacement of outlet works at Anderson Dam, pending completion of a field investigation that will determine whether the Coyote Fault is determined to be "active." Seismic stability improvements will accomplish the following objectives:

- Resolve seismic stability deficiencies to ensure public safety.
- Restore lost reservoir storage capacity resulting from the operational restriction issued by Division of Safety of Dams (DSOD).
- Resolve the DSOD/FERC (Federal Energy Regulatory Commission) requirements in a timely manner.

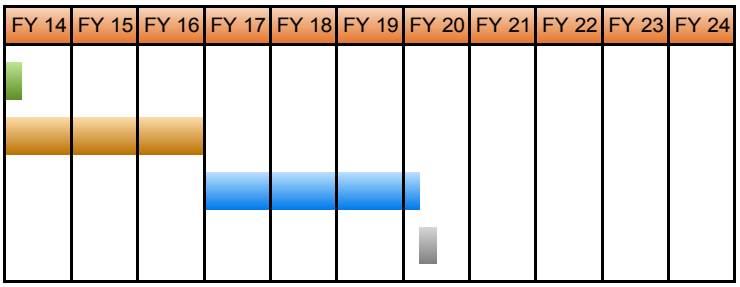
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

January 2011 to October 2019

Phase	Cost
Plan	10,852
Design	21,381
Construct	148,100
Closeout	200
	180,533



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91864005-Anderson Dam Seismic Retrofit	9,184	13,076	7,301	19,700	36,000	56,000	39,200	100	180,561
with inflation	9,184	13,076	7,301	21,308	38,267	60,704	43,302	127	193,268

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91864005-Anderson Dam Seismic Retrofit	10,481	12,620	841	6,460	21,308	38,267	60,704	43,302	127	193,268

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	126,215
SCVWD Safe Clean Water Fund	67,053
Total	**193,268**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project **Calero and Guadalupe Dams Seismic Retrofits**
Program Water Supply - Storage **Priority No.** 92
District Contact Katherine Oven koven@valleywater.org **Project No.** 91084020

Aerial view of the Calero Dam and reservoir

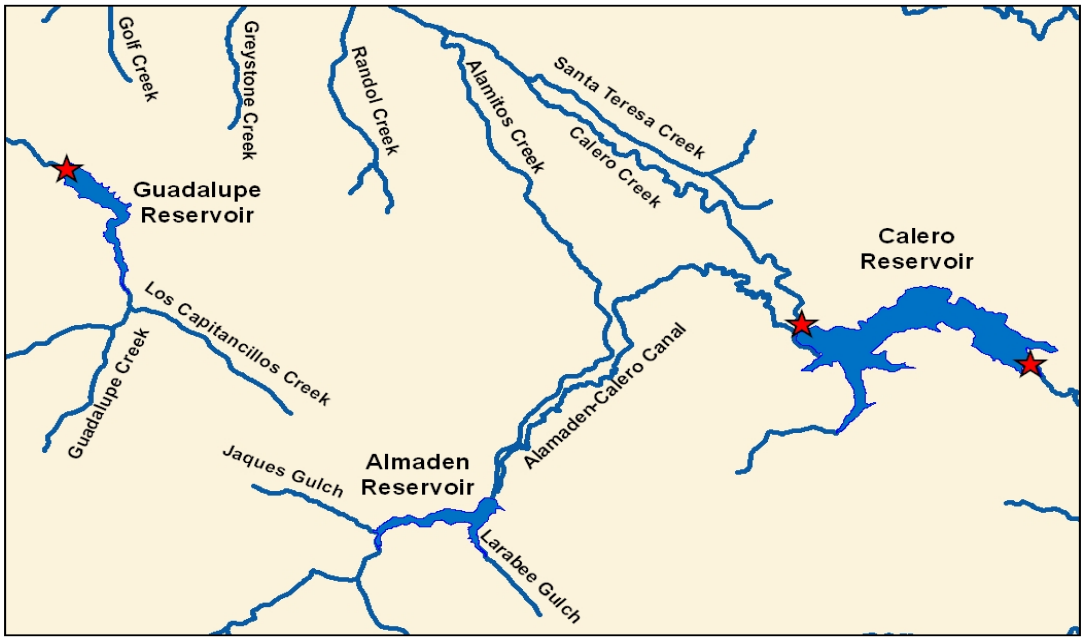
Areial view of the Guadalupe Dam, spillway, and part of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Calero and Guadalupe Dams to accomplish the following objectives:

- Stabilize the Calero and Guadalupe Dams' embankments for the maximum credible earthquake, possibly modify or replace the outlet works, and possibly modify the spillway to increase freeboard during a Probable Maximum Flood (PMF) event.
- Modify Fellows Dike to optimize the water utility benefits of Calero Reservoir in a cost-effective manner while considering stakeholder interests consistent with District policies.

PROJECT LOCATION

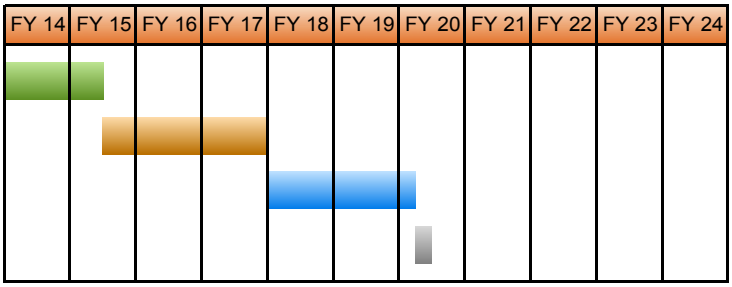


★ Project Location

SCHEDULE & STATUS

July 2012 to December 2019

Phase	Cost
Plan	7,779
Design	9,060
Construct	75,140
Closeout	360
	92,339



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91084020-Calero and Guadalupe Dams Seismic Retrofits	349	6,427	7,290	1,417	13,491	53,200	9,685	490	92,349
with inflation	349	6,427	7,290	1,533	14,428	57,865	10,950	620	99,462

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91084020-Calero and Guadalupe Dams Seismic Retrofits	2,369	4,427	20	7,270	1,533	14,428	57,865	10,950	620	99,462

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	99,462
Other Funding Source	0
Total	**99,462**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: 50 Years

Project	**Coyote Pumping Plant Warehouse**
Program	Water Supply - Storage
Priority No.	23
Project No.	91234011
District Contact	Katherine Oven koven@valleywater.org

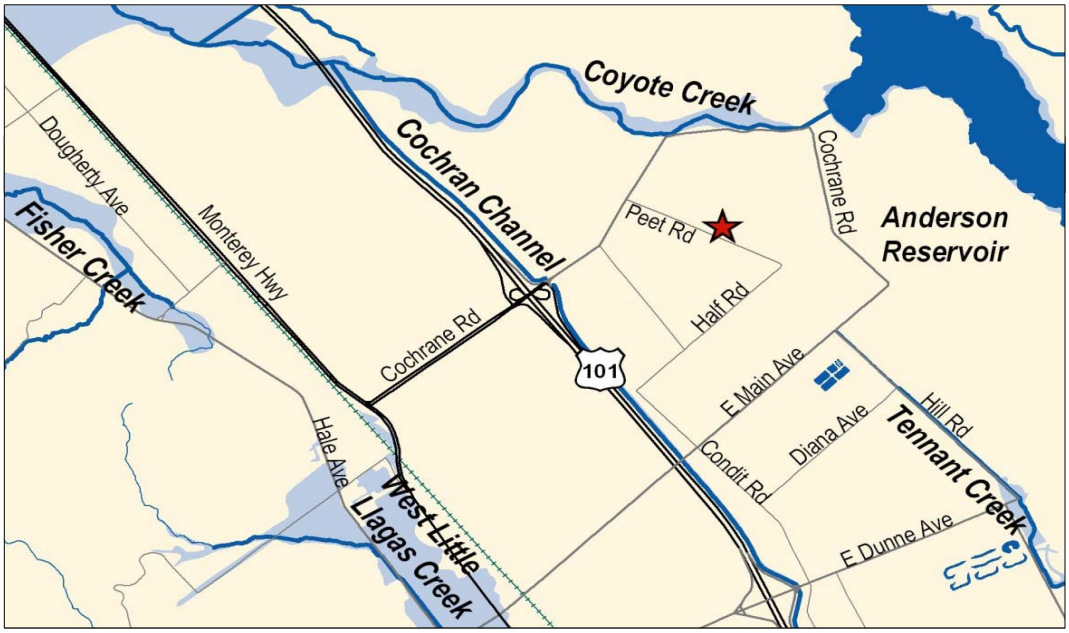
Existing storage containers being used to secure equipment and spare parts

PROJECT DESCRIPTION

This project plans, designs, and constructs the Coyote Pumping Plant Warehouse to accomplish the following objectives:

- Provide suitable storage space for pipeline spare parts and appurtenances to protect such materials from weather.
- Improve District's staff efficiency and effectiveness in pipeline maintance work.

PROJECT LOCATION

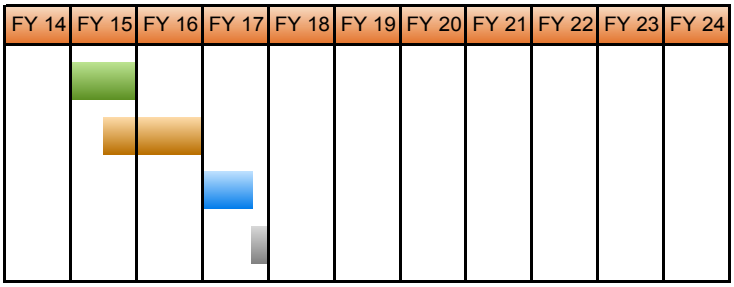


★ Project Location

SCHEDULE & STATUS

July 2014 to June 2017

Phase	Cost
Plan	316
Design	300
Construct	2,400
Closeout	20
	3,036



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91234011-Coyote Pumping Plant Warehouse	0	0	416	200	2,420	0	0	0	3,036
with inflation	0	0	416	216	2,595	0	0	0	3,227

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91234011-Coyote Pumping Plant Warehouse	0	0	0	416	216	2,595	0	0	0	3,227

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,227
Other Funding Sources	0
Total	**3,227**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined upon completion of the planning study.

USEFUL LIFE: 50 years

Project	**Dam Safety Seismic Stability**
Program	Water Supply – Storage
Priority No.	100
Project No.	91084019
District Contact	Frank Maitski fmaitski@valleywater.org

Field exploration for seismic stability evaluations

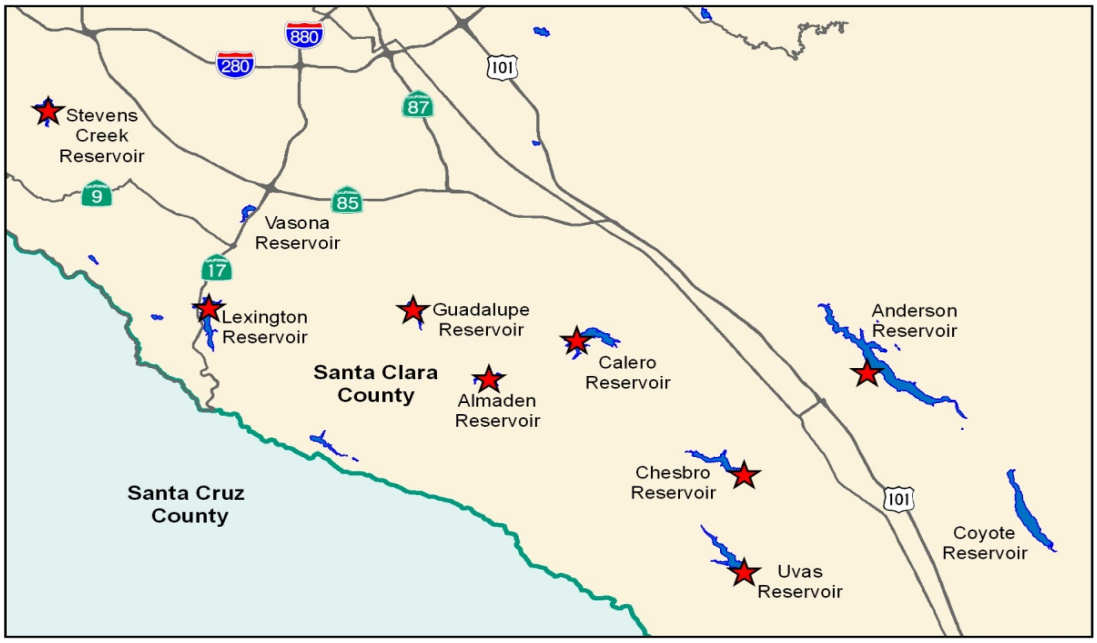
PROJECT DESCRIPTION

This project conducts preliminary planning (seismic stability evaluation) for 8 dams (shown on the map) to accomplish the following objectives:

- Address seismic stability issues.
- Provide for public safety.
- Ensure operational availability of reservoirs.
- Address protection of the assets.

Site specific planning, design, and construction of dam seismic stability improvements will be funded separately. This project funds preliminary planning (seismic stability evaluation, to determine the need for seismic stability improvements) for seven dams. The seismic stability evaluation for Anderson Dam was completed in a separate project. The seismic analysis for Almaden, Calero, Chesbro, Guadalupe, Lenihan, and Stevens Creek Dams has been completed. The analysis for Chesbro and Uvas is continuing through 2016.

PROJECT LOCATION



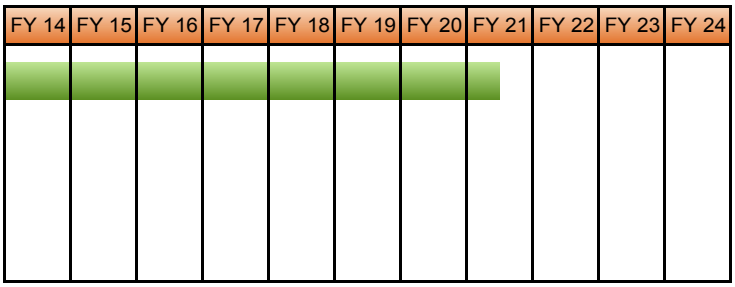
★ Project Location

SCHEDULE & STATUS

August 2009 to December 2020

(Planning Phase Only) Planning Study Report will take 5 years to complete, starting in FY15

Phase	Cost
Plan	18,812
Design	-
Construct	-
Closeout	-
	18,812



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91084019-Dam Safety Seismic Stability	7,512	3,500	7,800	0	0	0	0	0	18,812
with inflation	7,512	3,500	7,800	0	0	0	0	0	18,812

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91084019-Dam Safety Seismic Stability	9,899	2,389	1,276	6,524	0	0	0	0	0	18,812

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	18,812
Other Funding Source	0
Total	**18,812**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project	**San Luis Reservoir Low Point Improvement**
Program	Water Supply – Storage
Priority No.	53
Project No.	91214007
District Contact	Joan Maher jmaher@valleywater.org

San Luis Reservoir

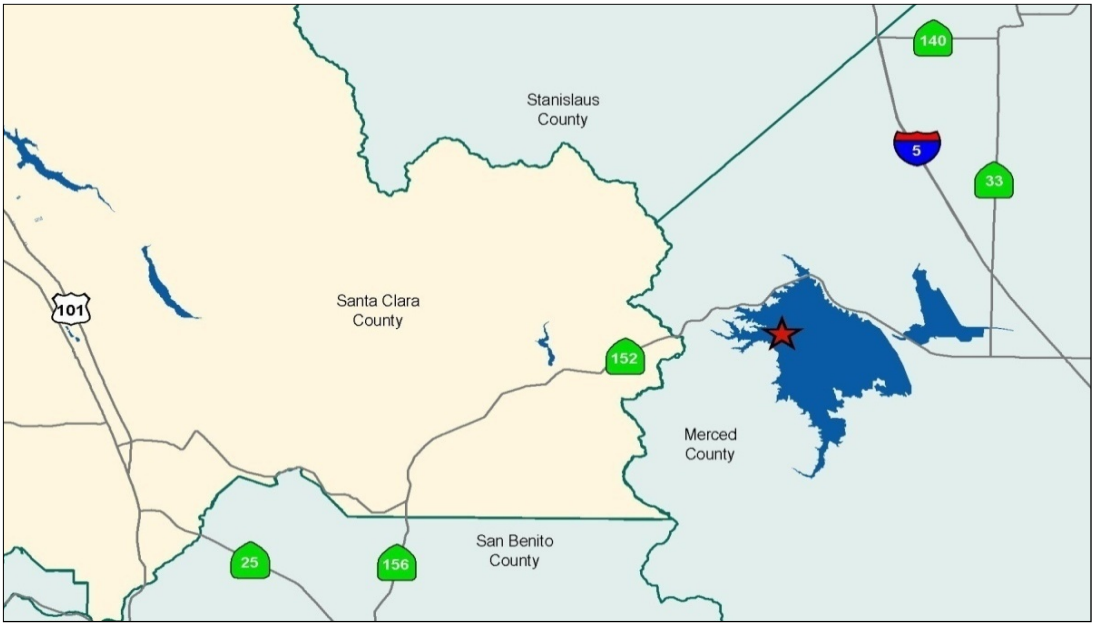
PROJECT DESCRIPTION

This project is in the federal feasibility process with the U.S. Bureau of Reclamation. The objectives, benefits, scope of work and schedule are determined by the federal process. These are presented in the federal Appraisal Report and Plan of Study dated May 2006. The federal feasibility study is anticipated to be completed in 2014. On the basis of the water resources problems identified to date, the following objectives were developed for this project:

- Increase the certainty of meeting the requested delivery schedule of annual allocations to San Luis Reservoir dependant Central Valley Project (CVP) Contractors.
- To the extent possible, while meeting the first objective, increase the reliability (quality of water available for allocation) of annual allocations to CVP contractors.

The project is currently funded for federal feasiblity only. The scope, schedule, costs and funding sources for design and construction will be determined at the completion of the planning phase.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2001 to June 2015

(Planning Phase Only)
Planning phase includes some preliminary design activities.

Phase	Cost
Plan	8,953
Design	285
Construct	1
Closeout	-
	9,239

FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91214007-San Luis Reservoir Low Point Improvement	13,044	913	338	0	0	0	0	0	14,295
with inflation	13,044	913	338	0	0	0	0	0	14,295

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91214007-San Luis Reservoir Low Point Improvement	15,247	0	1,290	0	0	0	0	0	0	15,247

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures by $952,000. Excess funds will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	2,942
Department of Water Resources	12,259
U.S. Bureau of Reclamation	46
Total	**15,247**
U.S. Bureau of Reclamation - In-kind Services	8,000

OPERATING COST IMPACTS

Planning Phase Only: No operating cost impacts are expected from the completion of this phase of the project.

USEFUL LIFE: Not Available

Project	**Small Capital Improvements, San Felipe**
Program	Water Supply – Storage
Priority No.	66
Project No.	91214010s
District Contact	Angela Cheung acheung@valleywater.org

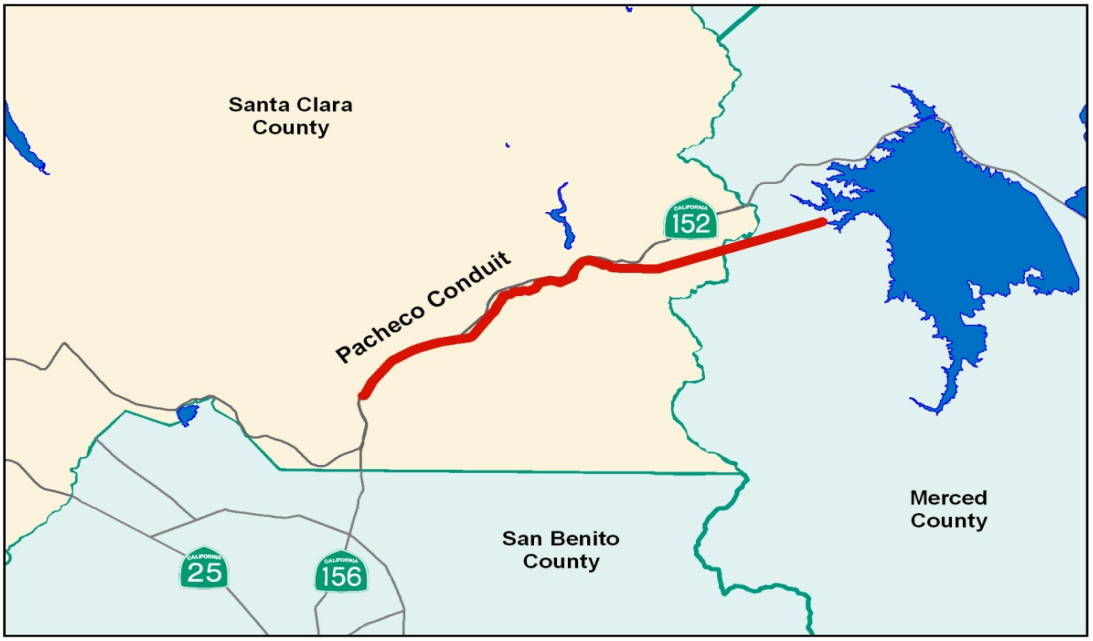
Suction wear ring bacterial corrosion of Impeller. Similar rehabilitation projects will be done in this project.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project implements a systematic approach to equipment replacement and renewal at facilities contained within San Felipe Division by designing and constructing improvements identified through the District's 10-year asset management program. Infrastructure within this project includes tunnels, large diameter pipelines and valve structures, pumps and associated equipment, as well as a large above ground storage tank. The Reach 1 renewal and replacement activities are conducted in coordination and cooperation with San Felipe Division Reach 1 contractors, partner cities, and other agencies. Planned projects for FY 2015 include:

- 91214010–Reach 1: Implementation of the Process Control Systems (SCADA) Master Plan; SCADA Firewall Replacement; Install 4 Rectifiers on Pacheco Conduit for corrosion protection; Replace Pacheco Pumping Plant HVOC control center; PSV-BIF 120 in remote Eddy Field Current Inspection for PCCP pipe; Pacheco Conduit - review & survey corrosion protection, soil resistivity verification survey, feasibility and design; Pipeline rehab.
- 91224010–Reach 2: No Projects Planned.
- 91234010–Reach 3: Consultant design service for in-conduit Energy Recovery Power Generation at Half Road and Madrone Turnout. First of three Board directed in-conduit recovery projects located in Raw Water Systems. Power purchase agreement setup with PG&E for next twenty years. All three projects have positive NPV saving at feasibility study phase subject to design phase validation. Construction for in-conduit recovery unit at Half Road and Madrone Tunnel.

PROJECT LOCATION



Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	28,630

FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91214010-Small Capital Improvements, San Felipe Reach 1	n/a	2,950	0	0	115	500	780	4,752	9,097
with inflation	n/a	2,950	0	0	129	585	949	7,721	12,335
91224010-Small Capital Improvements, San Felipe Reach 2	n/a	0	0	66	0	0	93	0	159
with inflation	n/a	0	0	71	0	0	113	0	185
91234010-Small Capital Improvements, San Felipe Reach 3	n/a	1,709	1,547	788	4,610	0	310	10,410	19,374
with inflation	n/a	1,709	1,547	852	5,186	0	377	16,882	26,553
TOTAL	**0**	**4,659**	**1,547**	**854**	**4,725**	**500**	**1,183**	**15,162**	**28,630**
with inflation	**0**	**4,659**	**1,547**	**924**	**5,315**	**585**	**1,439**	**24,604**	**39,072**

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91214010-Small Capital Improvements, San Felipe Reach 1	n/a	2,950	0	0	0	129	585	949	7,721	12,335
91224010-Small Capital Improvements, San Felipe Reach 2	n/a	0	0	0	71	0	0	113	0	185
91234010-Small Capital Improvements, San Felipe Reach 3	n/a	1,709	0	1,547	852	5,186	0	377	16,882	26,553
TOTAL	**0**	**4,659**	**0**	**1,547**	**924**	**5,315**	**585**	**1,439**	**24,604**	**39,072**

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	35,888
San Benito County Water District	3,185
Total	**39,072**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**5-Year Pipeline Rehabilitation**
Program	Water Supply – Transmission
Priority No.	56
Project No.	95084001
District Contact	Frank Maitski fmaitski@valleywater.org

A typical line valve assembly to be rehabilitated

PROJECT DESCRIPTION

This project plans, designs, and constructs major repairs and improvements to the District's pipelines and tunnels to accomplish the following objectives:

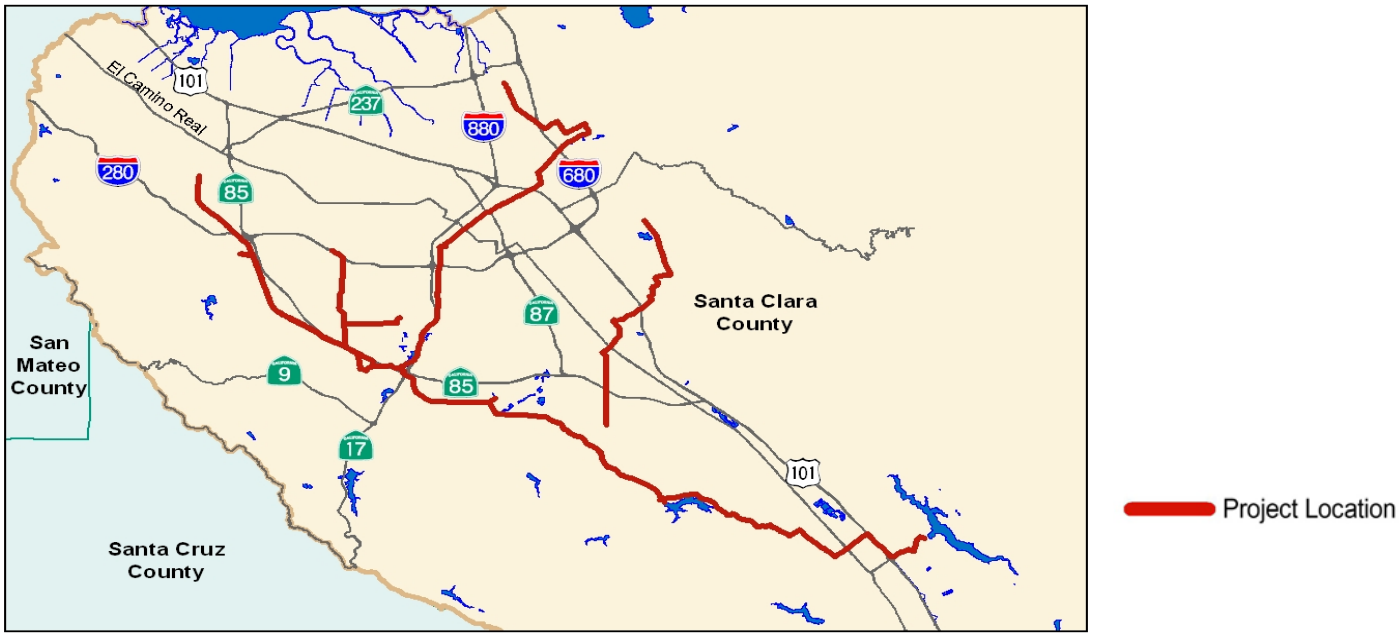
- Perform internal inspections, maintenance, and repair activities as required.
- Replace old valves, flow meters, pipeline appurtenance assemblies, and piping as approprate.
- Upgrade pipeline air valve venting in accordance with CA Department of Public Health (CDPH) guidelines.
- Modify failure prone pipeline appurtenance connections.

This project funds inspection and rehabilitation work along the various pipelines and tunnels as identified below:

- 2015: Snell Pipeline Phase 1 design & construction, Milpitas Pipeline construction, Cross Valley Pipeline planning & design
- 2016: Cross Valley Pipeline design & construction, Calero Bypass design & construction, Anderson Force Main planning, Parallel East planning
- 2017: Anderson Force Main design & construction, Parallel East design & construction, Snell Pipeline Phase 2 design & construction

The project also funds the development of the Pipeline Maintenance Program document for Fiscal Years 2018 to 2027 and CEQA/NEPA documenation and permit acquisitions.

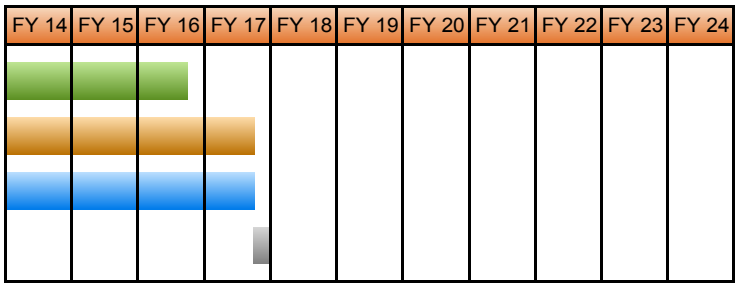
PROJECT LOCATION



SCHEDULE & STATUS

July 2012 to June 2017

Phase	Cost
Plan	1,391
Design	4,210
Construct	17,160
Closeout	21
	22,782



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
95084001-5-Year Pipeline Rehabilitation	4,153	4,911	5,794	4,315	4,476	0	0	0	23,649
with inflation	4,153	4,911	5,794	4,609	4,922	0	0	0	24,389

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
95084001-5-Year Pipeline Rehabilitation	4,133	4,931	0	5,794	4,609	4,922	0	0	0	24,389

Adjusted Budget includes adopted budget plus a planned budget adjustment of $1,505,000.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	24,389
Other Funding Sources	0
Total	**24,389**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Alamitos Diversion Dam Improvements**
Program	Water Supply – Transmission
Priority No.	72
Project No.	92404003
District Contact	Melanie Richardson mrichardson@valleywater.org

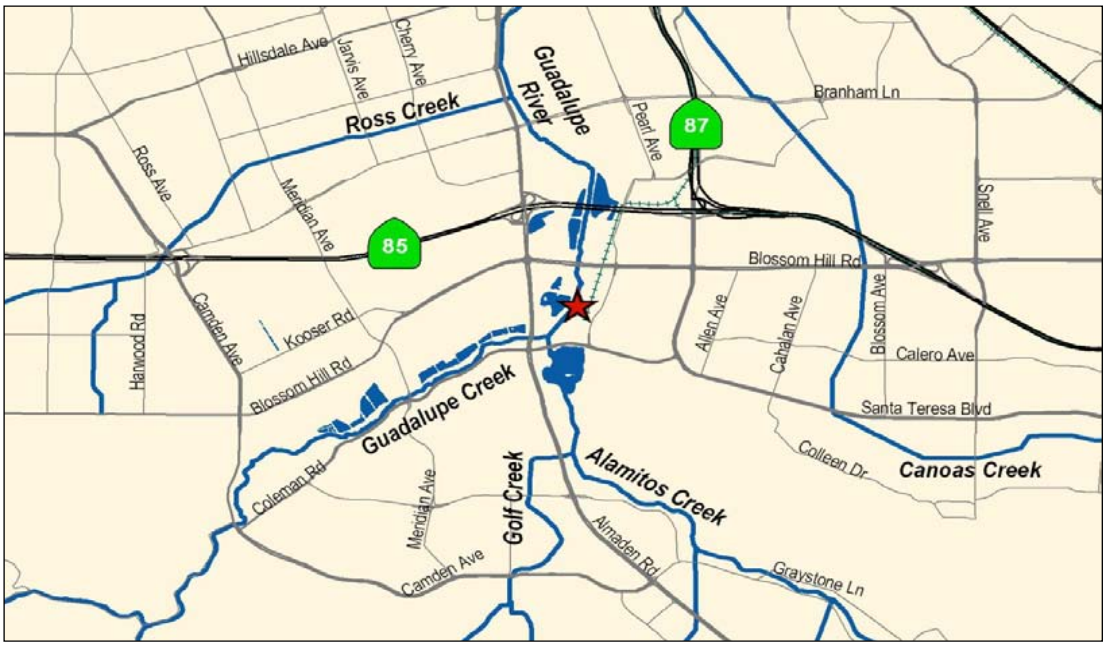
Future location of Alamitos Diversion Dam on Guadalupe River

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Alamitos Diversion Dam on the Guadalupe River, about 1,300 feet upstream of Blossom Hill Road in San Jose, to accomplish the following objectives:

- Preserve existing water rights.
- Improve staff safety by minimizing exposure of staff to a potentially hazardous environment.
- Perform operations and maintenance in a more environmentally sensitive manner.

PROJECT LOCATION



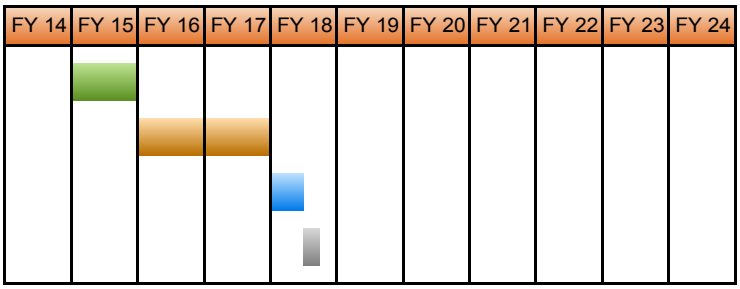
★ Project Location

SCHEDULE & STATUS

August 2006 to March 2018

Planning and Design schedules are extended to coordinate with the Three Creeks Habitat Conservation Plan.

Phase	Cost
Plan	962
Design	228
Construct	1,860
Closeout	15
	3,065



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY13	FY14	FY15	FY16	FY17	FY18	FY19	Future	
92404003-Alamitos Diversion Dam Improvements	837	1	1	291	820	1,115	0	0	3,065
with inflation	837	1	1	315	878	1,239	0	0	3,271

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY13	FY14		FY15	FY16	FY17	FY18	FY19	Future	
92404003-Alamitos Diversion Dam Improvements	2,962	0	2,124	0	0	0	309	0	0	3,271

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,271
Other Funding Source	0
Total	**3,271**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined upon completion of the planning study.

USEFUL LIFE: 50+ Years

Project	**Coyote Diversion Dam Improvements**
Program	Water Supply – Transmission
Priority No.	72
Project No.	92484003
District Contact	Melanie Richardson mrichardson@valleywater.org

Steel Diversion Dam on Coyote Creek

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Coyote Steel Diversion Dam located on Coyote Creek, about 2,000 feet downstream of Metcalf Road, to accomplish the following objectives:

- Preserve existing water rights.
- Improve staff safety associated with the removal and installation of the dam.
- Streamline flood prevention and operating procedures for removal and installation of the dam.

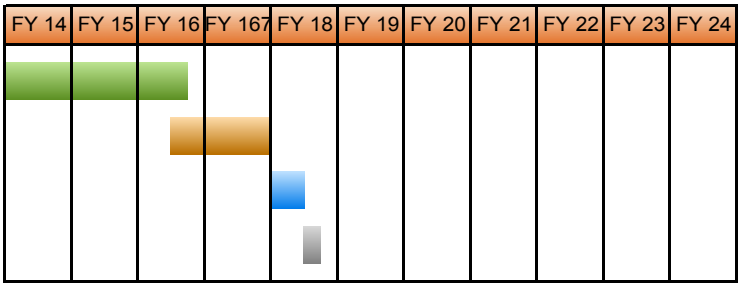
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2007 to January 2018

Phase	Cost
Plan	334
Design	160
Construct	1,805
Closeout	15
	2,314



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
92484003-Coyote Diversion Dam Improvements	320	1	1	122	800	1,070	0	0	2,314
with inflation	320	1	1	132	855	1,187	0	0	2,496

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
92484003-Coyote Diversion Dam Improvements	709	0	388	0	0	600	1,187	0	0	2,496

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	2,496
Other Funding Source	0
Total	**2,496**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be available upon completion of the planning study.

USEFUL LIFE: 50+ Years

Project	**IRP2 Additional Line Valves**
Program	Water Supply – Transmission
Priority No.	40
Project No.	26C40349
District Contact	Katherine Oven koven@valleywater.org

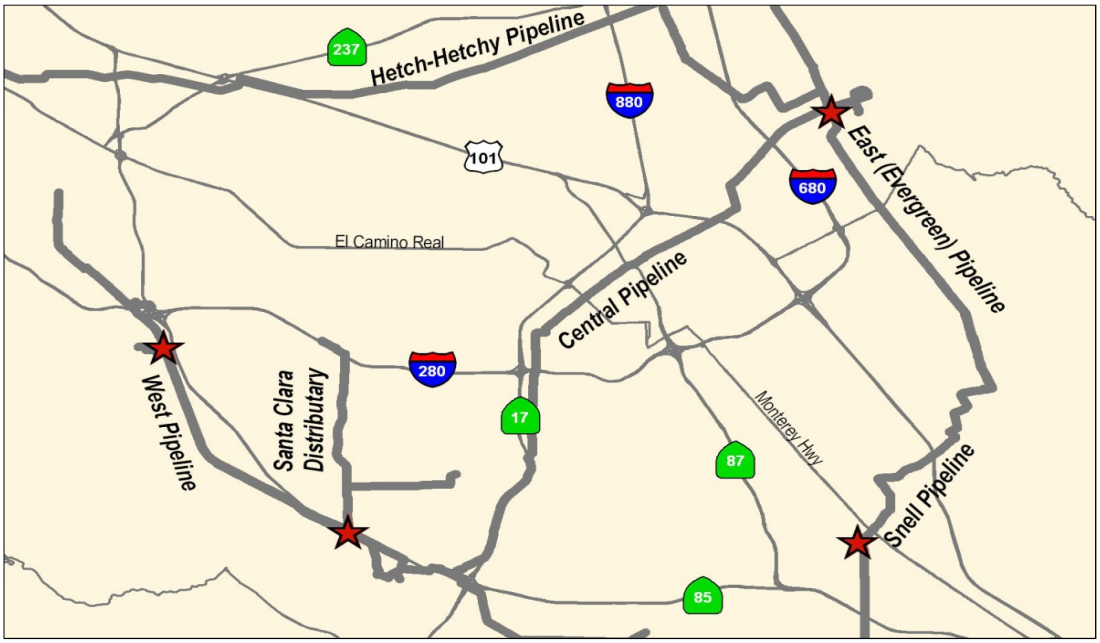
New line valves, actuators, and vaults similar to this will be installed along the East, West, and Snell pipelines

PROJECT DESCRIPTION

This project plans, designs, and constructs four additional line valves in the treated water distribution system, as defined in the Water Infrastructure Reliability Plan, Phase 2 (IRP2). The new line valves will be at various locations along the East, West, and Snell pipeline to accomplish the following objectives:

- Allow the district to isolate sections of the treated water pipeline to prevent water from bleeding out damaged sections following a major seismic event.
- Allow the network of emergency wells to operate, even when there is damage upstream and downstream of individual wells.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

July 2024 to June 2027

Phase	Cost
Plan	827
Design	998
Construct	7,190
Closeout	135
	9,150

FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26C40349-IRP2 Additional Line Valves	0	0	0	0	0	0	0	9,150	9,150
with inflation	0	0	0	0	0	0	0	12,900	12,900

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26C40349-IRP2 Additional Line Valves	0	0	0	0	0	0	0	0	12,900	12,900

FUNDING SOURCES

(in thousands $)

SCVWD Safe Clean Water Fund	12,900
Other Funding Source	0
Total	**12,900**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not signifiantly alter the existing facilities or modes of operation.

USEFUL LIFE: 35 Years

Project **Main & Madrone Pipelines Restoration**
Program Water Supply - Transmission **Priority No.** 70
District Contact Katherine Oven koven@valleywater.org **Project No.** 26564001s

Main Avenue Ponds facing North

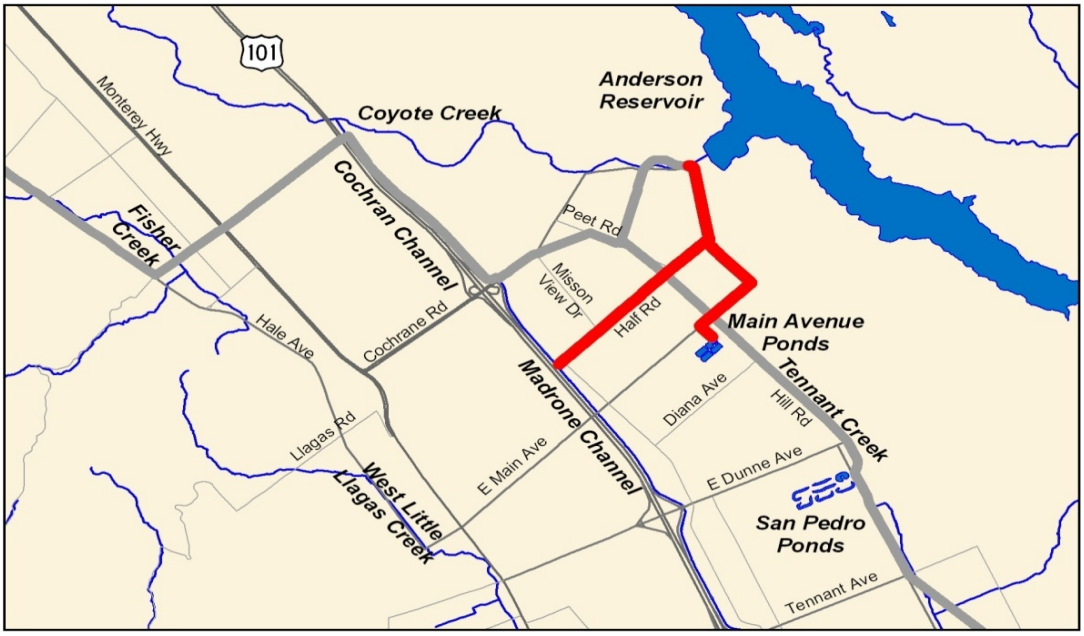
Madrone Pipeline Outlet into Madrone Channel looking North along Northbound Interstate 101

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements on the full length of the Madrone Pipeline and rehabilitates the Main Avenue Pipeline to accomplish the following objectives:

- Provide the means to utilize another reliable water source, (e.g. Anderson Reservoir) to supply water to the Main Avenue Ponds and the Madrone Channel.
- Allow for greater flows to the Main Avenue Ponds and the Madrone Channel.
- Maximize imported water flows to the treatment plants.

PROJECT LOCATION

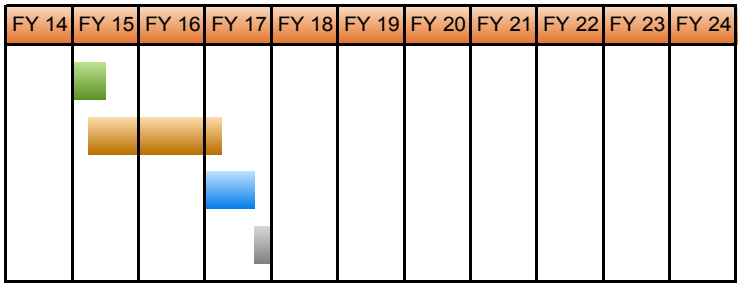


Project Location

SCHEDULE & STATUS

July 2014 to June 2017

Phase	Cost
Plan	431
Design	1,618
Construct	12,962
Closeout	68
	15,079



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26564001-Main & Madrone Pipelines Restoration	0	0	630	1,302	9,954	118	0	0	12,004
with inflation	0	0	630	1,408	10,652	138	0	0	12,829
92C40371-Main & Madrone Pipelines Restoration	0	0	0	0	3,075	0	0	0	3,075
with inflation	0	0	0	0	3,269	0	0	0	3,269
TOTAL	0	0	630	1,302	13,029	118	0	0	15,079
with inflation	0	0	630	1,408	13,921	138	0	0	16,097

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26564001-Main & Madrone Pipelines Restoration	0	0	0	630	1,408	10,652	138	0	0	12,829
92C40371-Main & Madrone Pipelines Restoration	0	0	0	0	0	3,269	0	0	0	3,269
TOTAL	**0**	**0**	**0**	**630**	**1,408**	**13,921**	**138**	**0**	**0**	**16,097**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	12,829
SCVWD Water Utility Enterprise Fund	3,269
Total	**16,097**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as it does not significantly alter the facility or modes of operation.

USEFUL LIFE: 40 Years

Project	**Pacheco/Santa Clara Conduit Right of Way Acquisition**
Program	Water Supply – Transmission
Priority No.	60
Project No.	92144001
District Contact	Katherine Oven koven@valleywater.org

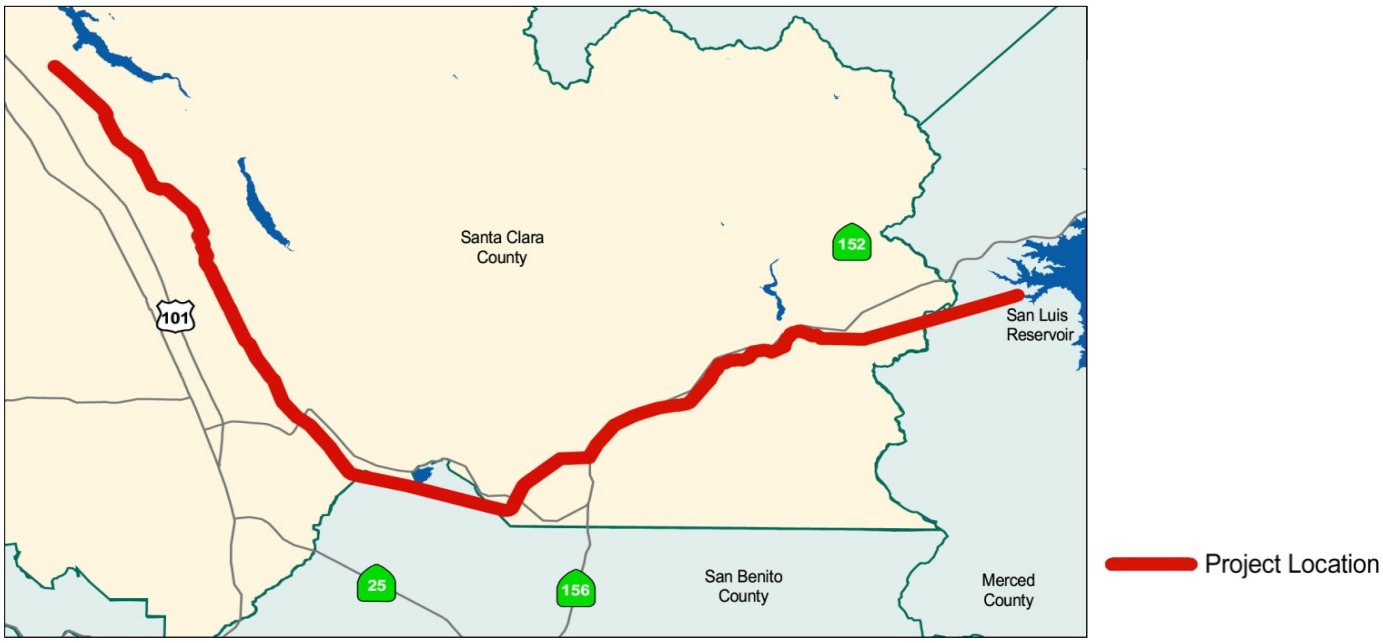
Access to much of the San Felipe Division pipelines must currently be made through private property, due to a lack of easements, such as Bloomfield access at Vault 21-23.

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements related to the acquisition of right-of-way along the South County Pipeline to accomplish the following objectives:

- Provide unlimited access to District owned pipeline.
- Reduce conflicts with local land owners and improve response time for emergency repairs or operations.

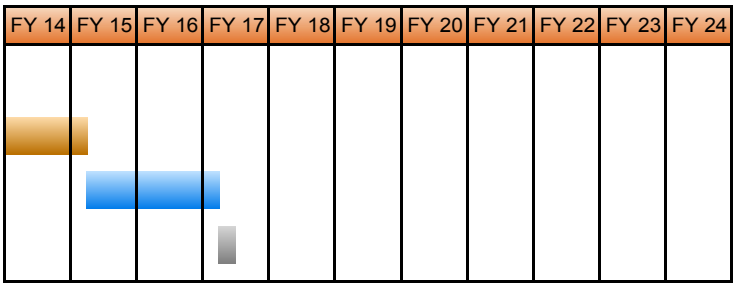
PROJECT LOCATION



SCHEDULE & STATUS

July 2009 to December 2016

Phase	Cost
Plan	603
Design	1,733
Construct	517
Closeout	35
	2,888



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition	922	224	1,596	60	95	0	0	0	2,897
with inflation	922	224	1,596	64	105	0	0	0	2,911

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition	1,555	1,009	1,418	178	64	105	0	0	0	2,911

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	2,892
San Benito County Water District	19
Total	**2,911**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $8,000 per year, beginning in FY 2016, for vegetation control and/or maintenance of fences, gates and locks for the access roads.

USEFUL LIFE: 15-20 Years

Project	**Penitencia Delivery Main/Force Main Seismic Retrofit**
Program	Water Supply – Transmission
Priority No.	84
Project No.	94384002s
District Contact	Katherine Oven koven@valleywater.org

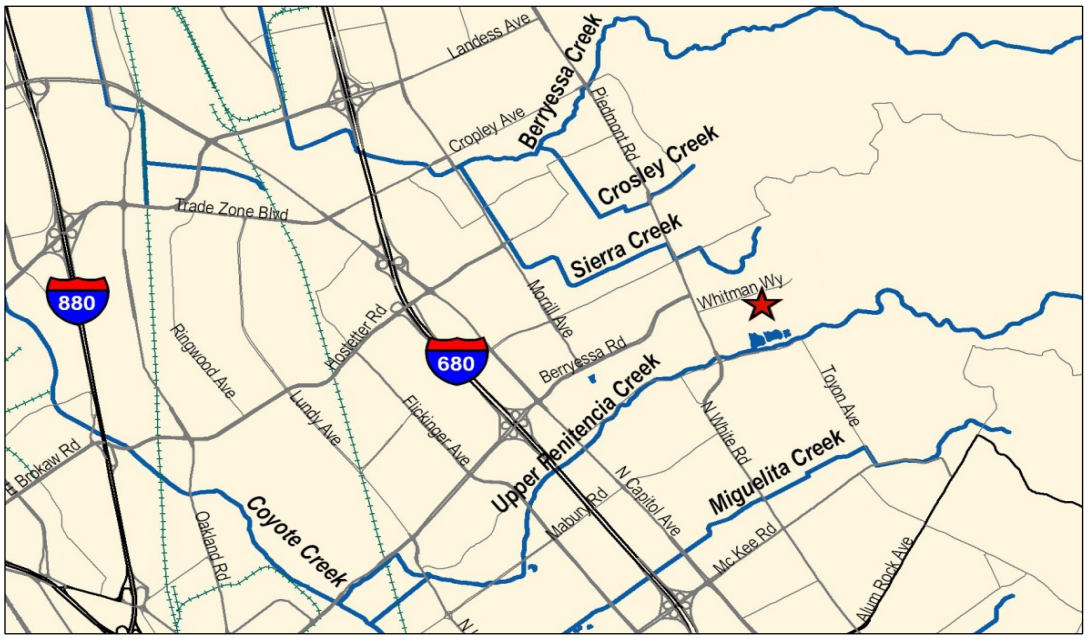
View of the Delivery Main for the Penitencia Water Treatment Plant

PROJECT DESCRIPTION

This project plans, designs, and constructs seismic improvements to the delivery main and force main junctions to prevent catastrophic failure due to an earthquake by accomplishing the following objectives:

- Perform a structural survey of the Penitencia Vault and Penitencia Delivery Main (PDM) Effluent Vault to ascertain the existing condition, their life expectancy, and whether any changes are necessary to accommodate the seismic retrofit project.
- Perform a seismic retrofit to the PDM, Penitencia Force Main (PFM), South Bay Aqueduct (SBA), and if necessary, the Penitencia and PDM Effluent Vaults to accommodate both the creeping and potentially extensive seismically-induced movements of the active landslide over a 50-year design life.

PROJECT LOCATION

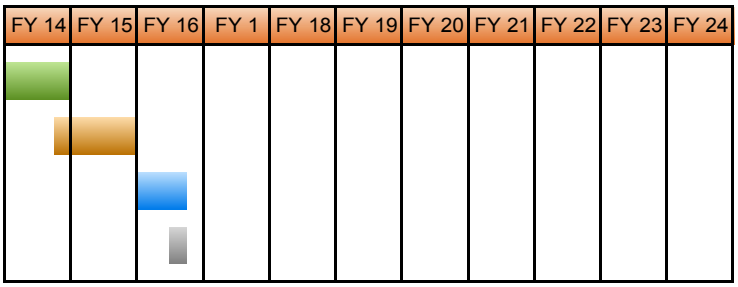


★ Project Location

SCHEDULE & STATUS

July 2012 to March 2016

Phase	Cost
Plan	543
Design	1,334
Construct	10,640
Closeout	20
	12,537



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
94384002-Penitencia Delivery Main Seismic Retrofit	462	379	444	5,330	0	0	0	0	6,615
with inflation	462	379	444	5,559	0	0	0	0	6,844
92224001-Penitencia Force Main Seismic Retrofit	459	379	444	5,330	0	0	0	0	6,612
with inflation	459	379	444	5,559	0	0	0	0	6,841
TOTAL:	921	758	888	10,660	0	0	0	0	13,227
Total with inflation	921	758	888	11,118	0	0	0	0	13,685

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
94384002-Penitencia Delivery Main Seismic Retrofit	567	379	105	339	5,559	0	0	0	0	6,844
92224001-Penitencia Force Main Seismic Retrofit	567	382	111	333	5,559	0	0	0	0	6,841
TOTAL	1,134	761	216	672	11,118	0	0	0	0	13,685

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

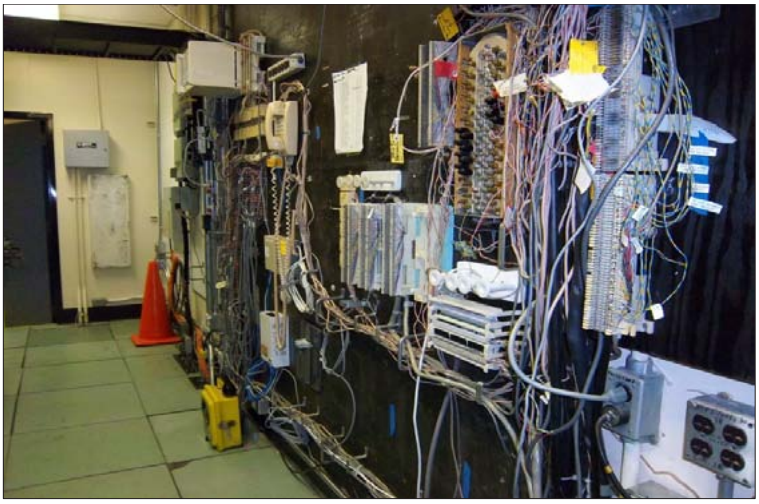
SCVWD Water Utility Enterprise Fund	13,685
Other Funding Source	0
Total	**13,685**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**SCADA Remote Architecture and Communications Upgrade**
Program	Water Supply – Transmission
Priority No.	48
Project No.	92374005
District Contact	Katherine Oven koven@valleywater.org



Raw Water Control Center Hub at Rinconada Water Treatment Plant similar to what will be installed at other facilities

PROJECT DESCRIPTION

This project plans, designs, and implements improvements to the back-up raw water control center and Process Control Systems (SCADA) telemetry to accomplish the following objectives:

- Complete the mobilizable raw water control center so it can be operated at any of the water treatment plants, pumping plants, or at District Headquarters/Almaden Campus.
- Upgrade the SCADA telemetry system to remove the single points of failure and to provide a robust and reliable telemetry system.

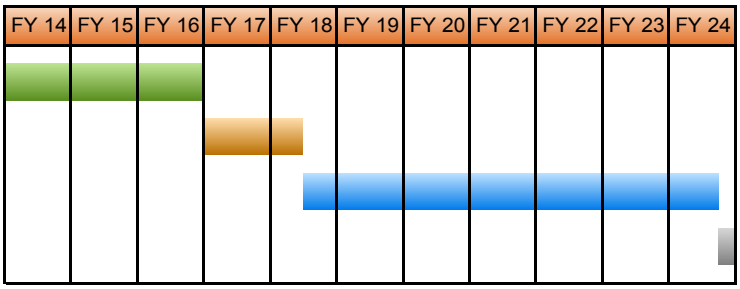
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2013 to June 2024

Phase	Cost
Plan	390
Design	600
Construct	4,290
Closeout	30
	5,310



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
92374005-SCADA Remote Architecture and Communications Upgrade	0	25	0	345	360	729	693	3,158	5,310
with inflation	0	25	0	373	405	818	776	3,780	6,177

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
92374005-SCADA Remote Architecture and Communications Upgrade	0	370	345	0	28	405	818	776	3,780	6,177

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	6,177
Other Funding Source	0
Total	**6,177**

OPERATING COST IMPACTS

The completion of this project is anitcipated to increase operating costs by approximately $80,440 per year, beginning in FY 2025 for operational support provided by control technicians, IT technicians, and SCADA engineers.

USEFUL LIFE: 25 Years

Project	**Small Capital Improvements, Raw Water Transmission**
Program	Water Supply – Transmission
Priority No.	72
Project No.	92764009
District Contact	Angela Cheung acheung@valleywater.org

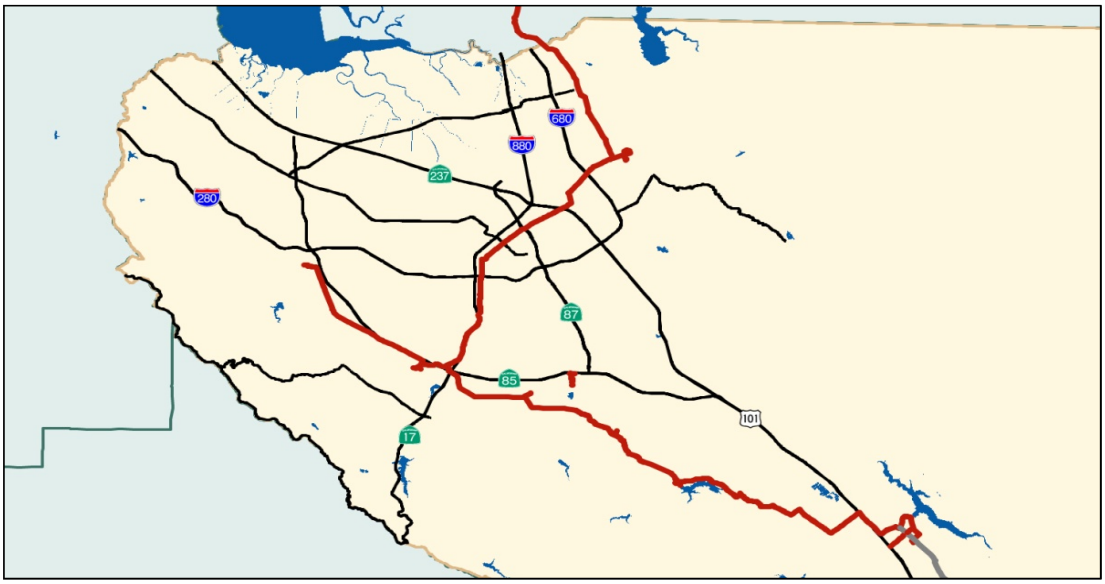
Major repair and replacement of turnout roofs and similar small raw water capital projects will be done, per the asset management plan.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project will repair or rehabilitate various existing raw water distribution facilities. These activities include identifying and fixing corrosion problems, replacing valves and other appurtenances and modifying water recharge facilities to avoid failure of the raw water transmission system and extend the life of the infrastructure. This project is part of the District's 10-year asset management program. Planned projects for FY 2015 include:

- Restore ponds to as-built or as constructed condition. Reduce estimated pond depths from ~10 to 15 feet to the as-built depths of ~ 4 to 5 feet. The work includes placement of suitable loose fill on the pond bottoms.

PROJECT LOCATION



Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
92764009-Small Capital Improvements, Raw Water Transmission	n/a	43	468	177	0	106	0	1,976	2,770
with inflation	n/a	43	468	191	0	124	0	3,196	4,023

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
92764009-Small Capital Improvements, Raw Water Transmission	n/a	43	0	468	191	0	124	0	3,196	4,023

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	4,023
Other Funding Source	0
Total	**4,023**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

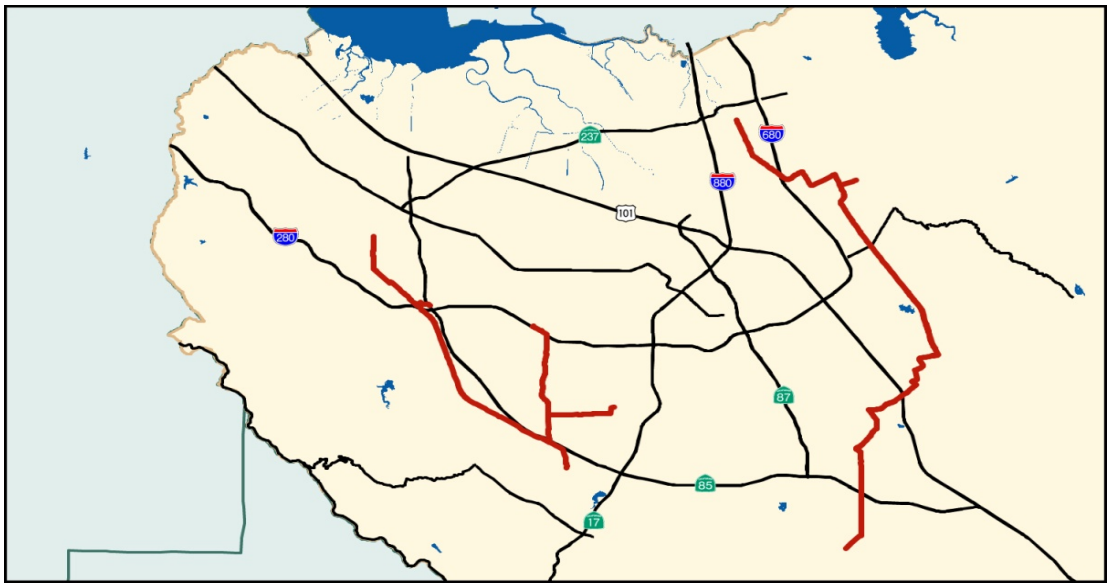
Project	**Small Capital Improvements, Treated Water Transmission**
Program	Water Supply – Transmission
Priority No.	65
Project No.	94764006
District Contact	Angela Cheung acheung@valleywater.org

Small Capital projects at treated water transmission facilities, similar to this new valve installation in the Piedmont Line Valve Vault, will be done, per the asset management plan.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project will repair or rehabilitate various existing treated water distribution facilities, such as identifying and treating corrosion problems, replacing valves and other appurtenances and repairing or adding turnouts to avoid failure of the treated water transmission system and to extend the life of the infrastructure. This project is part of the District's 10-year asset management program. No activities planned for FY 2015.

PROJECT LOCATION



Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
94764006-Small Capital Improvements, Treated Water Transmission	n/a	0	0	52	0	0	75	0	127
with inflation	n/a	0	0	56	0	0	91	0	147

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
94764006-Small Capital Improvements, Treated Water Transmission	n/a	0	0	0	56	0	0	91	0	147

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Unspent funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	147
Other Funding Source	0
Total	**147**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**TC HCP Implementation**
Program	Water Supply - Transmission
Priority No.	63
Project No.	92C40357
District Contact	Katherine Oven koven@valleywater.org

Fish habitats such as this will be developed for Habitat Conservation. Actual locations will differ.

PROJECT DESCRIPTION

This project funds habitat conservation projects to be implemented as part of the Three Creeks Habitat Conservation Plan (TC HCP). The Three Creeks HCP grew out of the 1996 Water Rights Complaint and subsequent Fish and Aquatic Habitat Conservation Effort (FAHCE). The capital project components of the conservation measures are likely to include projects such as: upgrades for operational adaptibility and flexibility; instream channel enhancements; new fish screens, and instream barrier removals. When implemented, the TC HCP currently under development will contain conservation measures designed to:

- Meet instream flows to support fish spawning, rearing and migration.
- Provide fish passages to accommodate annual migration.
- Improve instream habitat for steelhead.

PROJECT LOCATION

Project sites will be located at reservoirs and streams within the Three Creeks Project Area, in the Guadalupe, Coyote and Stevens Creek Watersheds. Project site locations are yet to be determined and no map is provided.

SCHEDULE & STATUS

July 2015 to June 2022

Phase	Cost
Plan	110,191
Design	-
Construct	-
Closeout	-
	110,191

FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
92C40357-TC HCP Implementation	0	0	0	1,483	3,976	3,515	11,855	89,362	110,191
with inflation	0	0	0	1,604	4,472	4,112	14,423	120,497	145,109

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
92C40357-TC HCP Implementation	0	0	0	0	1,604	4,472	4,112	14,423	120,497	145,109

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	145,109
Other Funding Source	0
Total	**145,109**

OPERATING COST IMPACTS

Operating cost impacts will vary, depending on the requirements for maintenance of each site. Once the sites have been identified, operating costs will be determined based on the existing conditions and maintenance identified for each site.

USEFUL LIFE: N/A

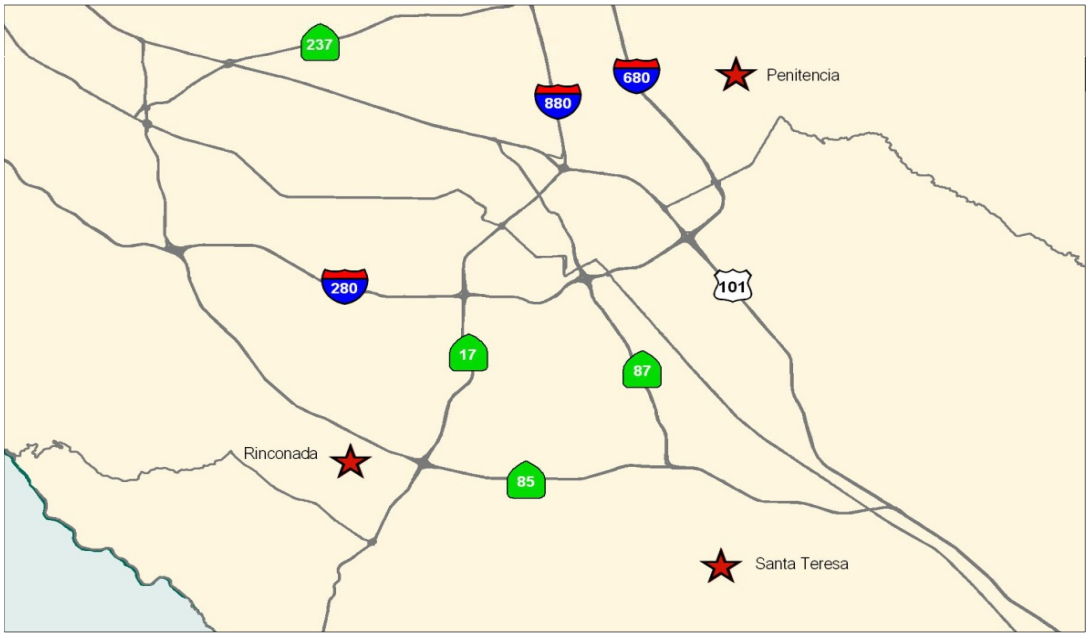
Project	**Fluoridation at Water Treatment Plants**
Program	Water Supply – Treatment
Priority No.	51
Project No.	93084011
District Contact	Katherine Oven koven@valleywater.org

Chemical storage tank and associated hardware will be installed at the water treatment plants for the fluoridation process

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at the water treatment plants to provide fluoridation facilities that will include fluorosilicic acid storage tanks, tank foundations, chemical feed facilities, spill containment, storage and feed equipment areas, piping, online fluoride analyzers, and accessories.

PROJECT LOCATION

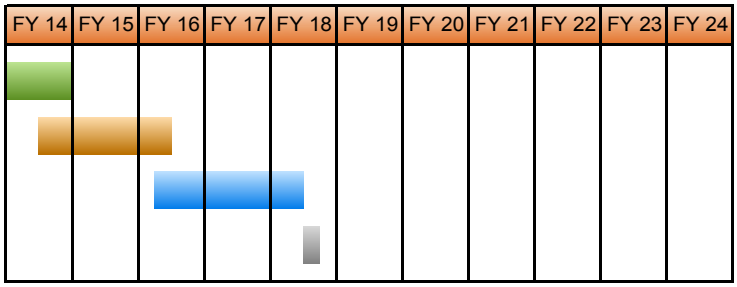


★ Project Location

SCHEDULE & STATUS

September 2013 to February 2018

Phase	Cost
Plan	216
Design	1,035
Construct	5,251
Closeout	85
	6,587



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93084011-Fluoridation at Water Treatment Plants	0	357	791	4,853	455	131	0	0	6,587
with inflation	0	357	791	5,074	512	153	0	0	6,887

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93084011-Fluoridation at Water Treatment Plants	0	357	0	791	5,074	512	153	0	0	6,887

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	4,487
The Health Trust	1,000
First 5 of Santa Clara County	900
California Dental Association Foundation	500
Total	**6,887**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $1,000,000 per year, beginning in FY 2019.

USEFUL LIFE: Fluoride System: 10 years

Project	**Infrastructure Reliability**
Program	Water Supply – Treatment
Priority No.	30
Project No.	93504001
District Contact	Erin Baker ebaker@valleywater.org

The District will work collaboratively with retailers to identify infrastructure reliability improvements such as an emergency well field, similar to the field shown here.

PROJECT DESCRIPTION

This project implements the Infrastructure Reliability Master Plan created to ensure the District's water supply infrastructure is reliable under a variety of current and future operational scenarios and outages. The plan will evaluate raw and treated water systems in both North and South County. It will plan for system outages and assess strategic infrastructure projects such as interties and new customer connections to accomplish the following objectives:

- Set level of service goals or operating strategies for a range of system outages.
- Quantify impacts for a range of system outages.
- Address system capacity constraints and new customer connections.
- Identify improvements that will help prevent or accommodate system outages, and help meet level of service goals.

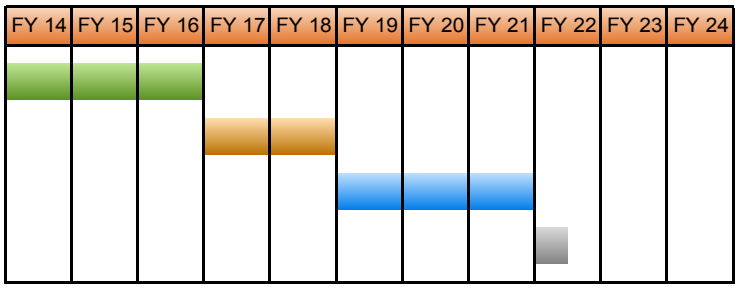
PROJECT LOCATION

No project map is provided. Potential project locations countywide.

SCHEDULE & STATUS

July 2010 to December 2021

Phase	Cost
Plan	2,543
Design	2,673
Construct	13,375
Closeout	530
	19,121



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93504001-Infrastructure Reliability	173	1,401	599	393	1,325	1,325	3,625	10,280	19,121
with inflation	173	1,401	599	425	1,490	1,550	4,084	12,065	21,787

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93504001-Infrastructure Reliability	385	1,314	125	474	425	1,490	1,550	4,084	12,065	21,787

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	21,787
Other Funding Source	0
Total	**21,787**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: 30+ Years

Project **IRP2 WTP Operations Buildings Seismic Retrofit**
Program Water Supply - Treatment **Priority No.** 70
District Contact Katherine Oven koven@valleywater.org **Project No.** 93764003

The RWTP control building is one of the four buildings that will be studied and possibly retrofitted to meet safety requirements

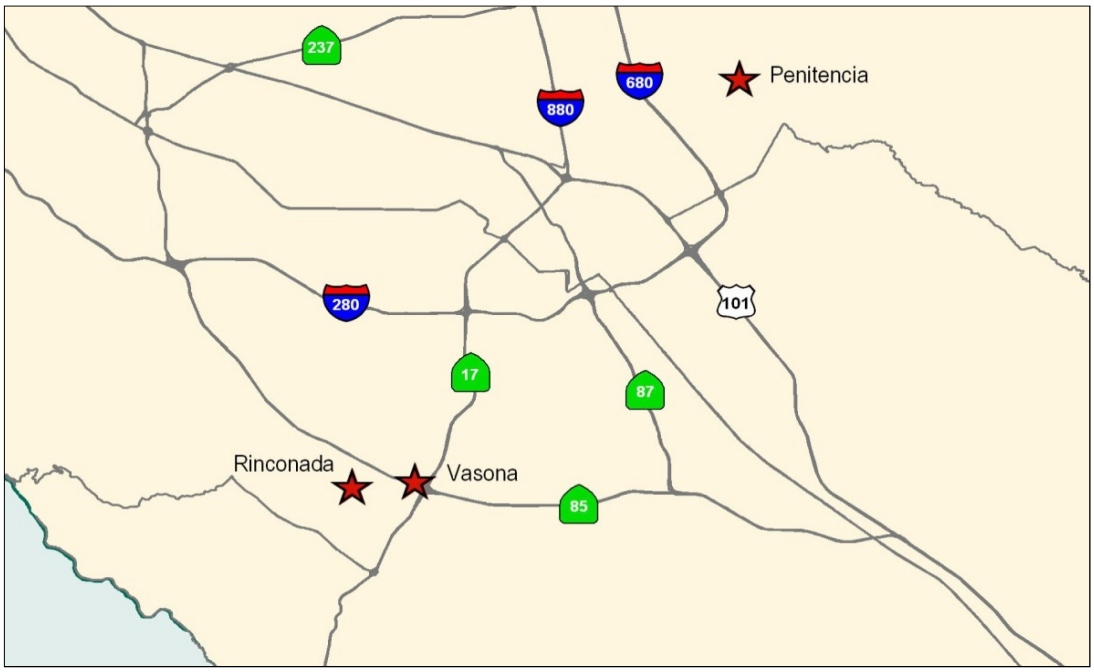
The PWTP control building is another of the four buildings that will be studied and possibly retrofitted to meet safety requirements

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements, including possible seismic retrofitting of two water treatment plant operations buildings and two buildings at the Vasona Pump Station that were built prior to 1980, as defined in the Water Infrastructure Reliability Plan, Portfolio 2 (IRP2), to ensure a healthy and safe work environment for employees and provide for continued functionality of these critical facilities after a major earthquake.

In addition, this Project will consider some non-structural elements of the Rinconada Water Treatment Plant (RWTP) Control Building, such as space reallocation, Americans with Disablities Act (ADA) improvements, and heating, ventilation, and air conditioning (HVAC) system rehabilitation.

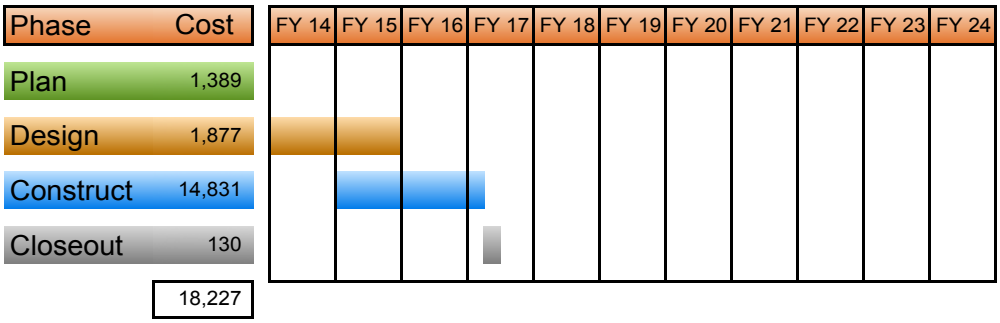
PROJECT LOCATION



Project Location

SCHEDULE & STATUS

January 2008 to December 2016



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93764003-IRP2 WTP Operations Buildings Seismic Retrofit	3,589	12,430	2,894	482	90	0	0	0	19,485
with inflation	3,589	12,430	2,894	521	101	0	0	0	19,536

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93764003-IRP2 WTP Operations Buildings Seismic Retrofit	4,314	11,705	0	2,894	521	101	0	0	0	19,536

Adjusted Budget includes adopted budget plus a planned budget adjustment of $2,227,000.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	19,536
Other Funding Source	0
Total	**19,536**

OPERATING COST IMPACTS

Completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not alter the existing modes of operation. However, seismic retrofit will reduce or avoid structural damages and reduce the cost of post-earthquake repairs.

USEFUL LIFE: 50+ Years

Project	**PWTP Clearwell Recoating and Repair**
Program	Water Supply – Treatment
Priority No.	68
Project No.	93234043
District Contact	Katherine Oven koven@valleywater.org

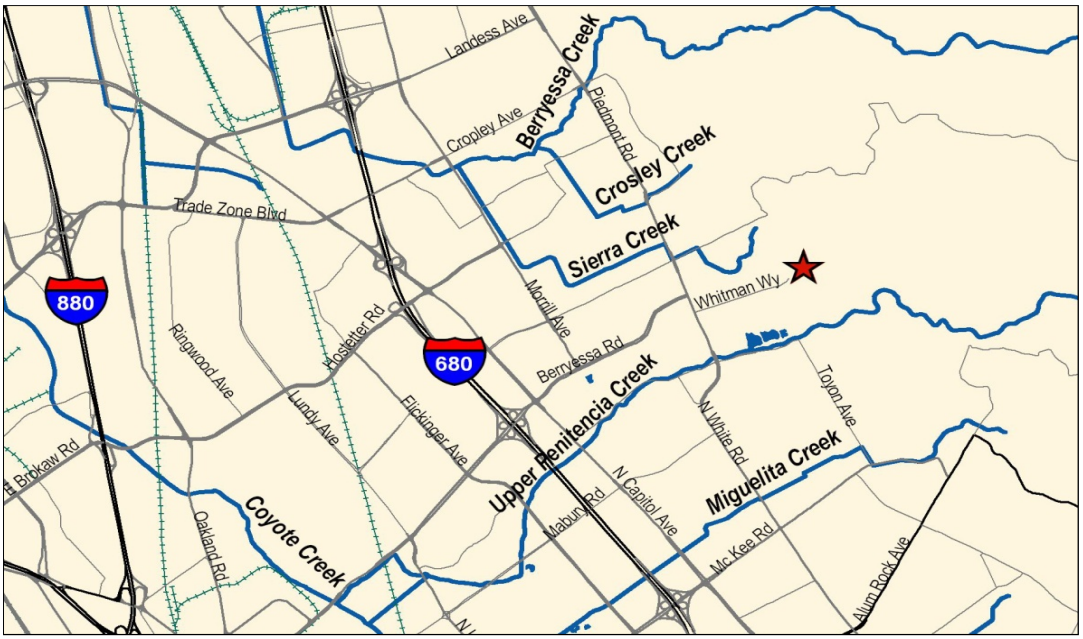
Active corrosion of the rafters and rafter support

PROJECT DESCRIPTION

This project plans, designs, and constructs corrosion repairs to the existing clearwell at Penitencia Water Treatment Plant (PWTP) to accomplish the following objectives:

- Extend the life of the PWTP Clearwell by removing as much corrosion as possible and recoating surfaces as necessary.
- Evaluate the structural condition of the rafters and supports as identified in the January 2009 report by Bay Area Coating Consultants.

PROJECT LOCATION

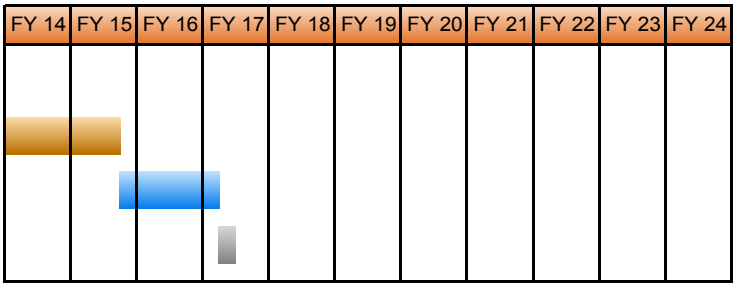


★ Project Location

SCHEDULE & STATUS

July 2010 to December 2016

Phase	Cost
Plan	534
Design	532
Construct	3,302
Closeout	15
	4,383



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93234043-PWTP Clearwell Recoating and Repair	1,174	420	2,922	347	43	0	0	0	4,906
with inflation	1,174	420	2,922	375	48	0	0	0	4,940

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93234043-PWTP Clearwell Recoating and Repair	1,594		0	2,922	375	48	0	0	0	4,940

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	4,940
Other Funding Source	0
Total	**4,940**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs as it does not alter existing modes of operation.

USEFUL LIFE: 15 Years

Project	**PWTP Water Pumps Modification**
Program	Water Supply – Treatment
Priority No.	75
Project No.	93234042
District Contact	Katherine Oven koven@valleywater.org

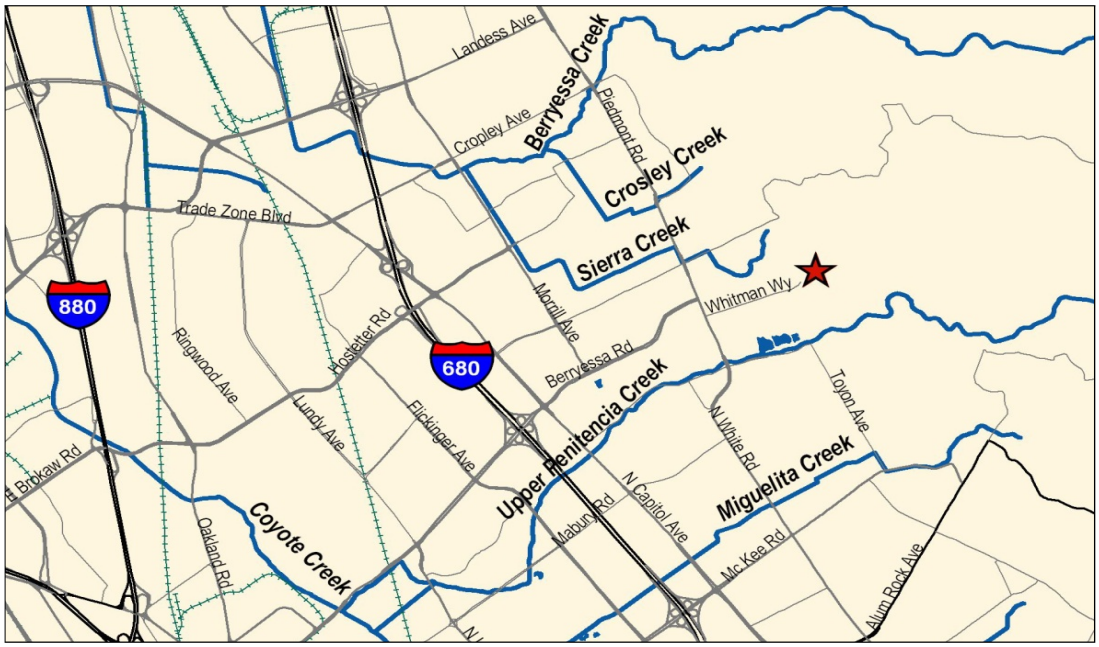
Two plant water pumps and three cooling water pumps supply water used at the Penitencia Water Treatment Plant

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Penitencia Water Treatment Plant (PWTP) pumps to accomplish the following objectives:

- Increase operating capacity of the plant water pumps.
- Increase operating capacity of the cooling water pumps.
- Meet plant water demands.
- Improve operational reliability.

PROJECT LOCATION

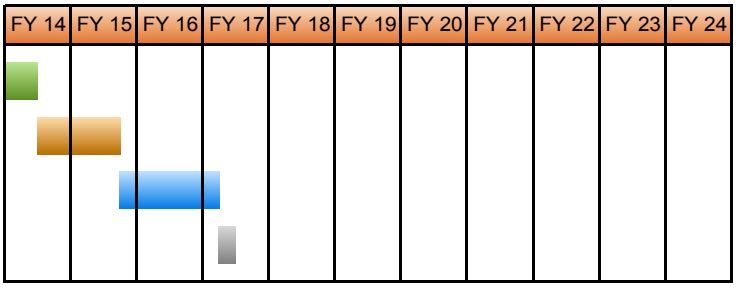


★ Project Location

SCHEDULE & STATUS

October 2009 to October 2016

Phase	Cost
Plan	658
Design	721
Construct	2,177
Closeout	16
	3,572



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93234042-PWTP Water Pumps Modification	547	420	2,220	320	76	0	0	0	3,583
with inflation	547	420	2,220	346	85	0	0	0	3,619

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93234042-PWTP Water Pumps Modification	2,745	291	2,069	151	346	85	0	0	0	3,619

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,619
Other Funding Source	0
Total	**3,619**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 30 Years

Project **RWTP FRP Residuals Management**
Program Water Supply - Treatment **Priority No.** 87
District Contact Katherine Oven koven@valleywater.org **Project No.** 93294051

Existing belt press to be replaced with new residuals management facility

Formwork for gravity thickeners for modernized sludge processing facility

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP) residuals management processes, consistent with the Facility Renewal Program (FRP) to accomplish the following objectives:

- Extend the useful life of the treatment plant.
- Improve the efficiency of the residual management processes.
- Minimize risk of discharge violations.
- Improve the reliability of RWTP.

PROJECT LOCATION

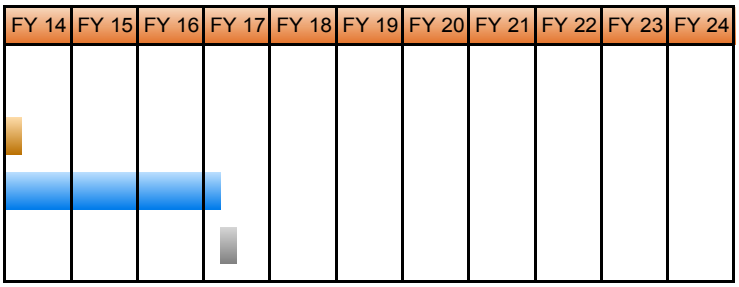
★ Project Location

SCHEDULE & STATUS

July 2008 to September 2015

Design and Construction phases overlap due to a phased approach to managing the project.

Phase	Cost
Plan	1,441
Design	841
Construct	23,436
Closeout	80
	25,798



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93294051-RWTP FRP Residuals Management	3,614	20,672	1,768	850	235	0	0	0	27,139
with inflation	3,614	20,672	1,768	919	264	0	0	0	27,238

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93294051-RWTP FRP Residuals Management	3,891	21,125	730	1,038	919	264	0	0	0	27,238

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

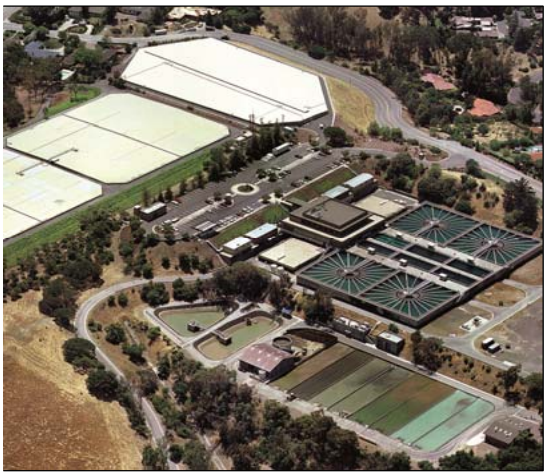
SCVWD Water Utility Enterprise Fund	27,238
Other Funding Source	0
Total	**27,238**

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease annual operating costs by approximately $200,000 per year starting in 2018.

USEFUL LIFE: Structures – 50 Years; Mechanical Equipment – 15 Years; Electrical Equipment – 10 Years

Project **RWTP Reliability Improvement**
Program Water Supply - Treatment **Priority No.** 46
District Contact Katherine Oven koven@valleywater.org **Project No.** 93294057



Aerial view of the Rinconada Water Treatment Plant facing west

Artist rendering of the aerial view of the Rinconada Water Treatment Plant facing south after construction

PROJECT DESCRIPTION

This project plans, designs, and constructs new faciliteis at Rinconada Water Treatment Plant (RWTP) that will improve plant reliability by accomplishing the following objectives:

- Construct a new raw water ozonation facility.
- Construct a new flocculation and plate settler clarification facility.
- Implement a dual media filtration system.
- Increase plant capacity to 100 million gallons per day (MGD).

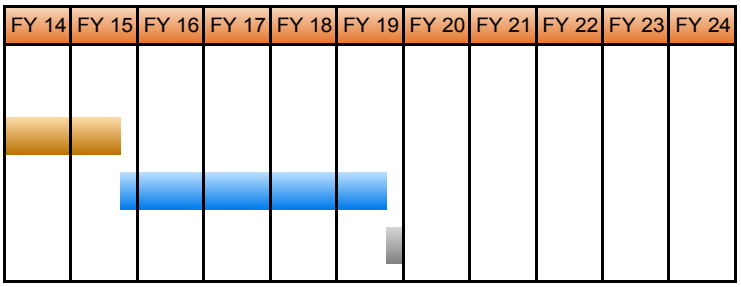
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2009 to June 2019

Phase	Cost
Plan	1,569
Design	11,899
Construct	192,503
Closeout	120
	206,091



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93294057-RWTP Reliability Improvement	10,196	8,910	46,401	56,755	51,110	39,160	120	0	212,652
with inflation	10,196	8,910	46,401	59,532	54,818	42,489	146	0	222,493

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY156**	**FY17**	**FY18**	**FY19**	**Future**	
93294057-RWTP Reliability Improvement	11,190	7,923	7	46,394	59,532	54,818	42,489	146	0	222,493

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	222,493
Other Funding Source	0
Total	**222,493**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $1.4 million per year, beginning in FY 2020. Increases are for routine maintenance and operation of new equipment.

USEFUL LIFE: Media – 20 Years; Structures – 50 Years; Equipment – 15 Years

Project	**RWTP Treated Water Valves Upgrade**
Program	Water Supply – Treatment
Priority No.	87
Project No.	93294056
District Contact	Katherine Oven koven@valleywater.org

Example of a valve to be replaced or upgraded

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP) including seismically strengthening the chemical storage structures; replacing/upgrading the valves and appurtenances used to control treated water at the clearwells and the Ronconada Reservoir; repairing a damaged baffle wall in the Rinconada Reservoir; and installing a 48-inch magnetic flow meter on the treatment plant's treated water effluent pipeline. Consistent with the Facility Renewal Program (FRP), this project will accomplish the following objectives:

- Ensure plant operational reliability.
- Improve ability to maintain the plant.
- Allow for better isolation of the treated water control valves for future work.
- Achieve greater accuracy in measuring treated water deliveries.

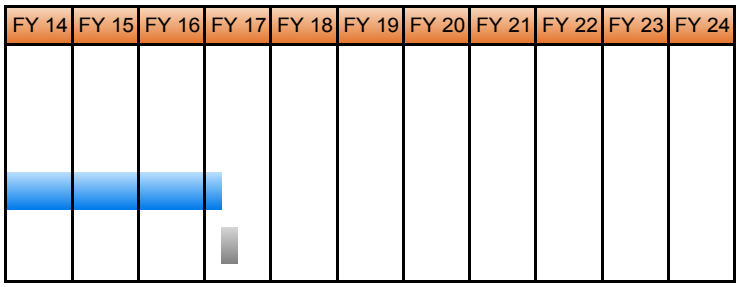
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2009 to December 2016

Phase	Cost
Plan	465
Design	1,082
Construct	6,832
Closeout	30
	8,409



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93294056-RWTP Treated Water Valves Upgrade	1,844	5,389	842	570	70	0	0	0	8,715
with inflation	1,844	5,389	842	617	79	0	0	0	8,770

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93294056-RWTP Treated Water Valves Upgrade	1,828	6,117	712	130	617	79	0	0	0	8,770

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	8,770
Other Funding Source	0
Total	**8,770**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operations.

USEFUL LIFE: 40 Years

Project	**Small Capital Improvements, Water Treatment**
Program	Water Supply – Treatment
Priority No.	67
Project No.	93764004
District Contact	Angela Cheung acheung@valleywater.org

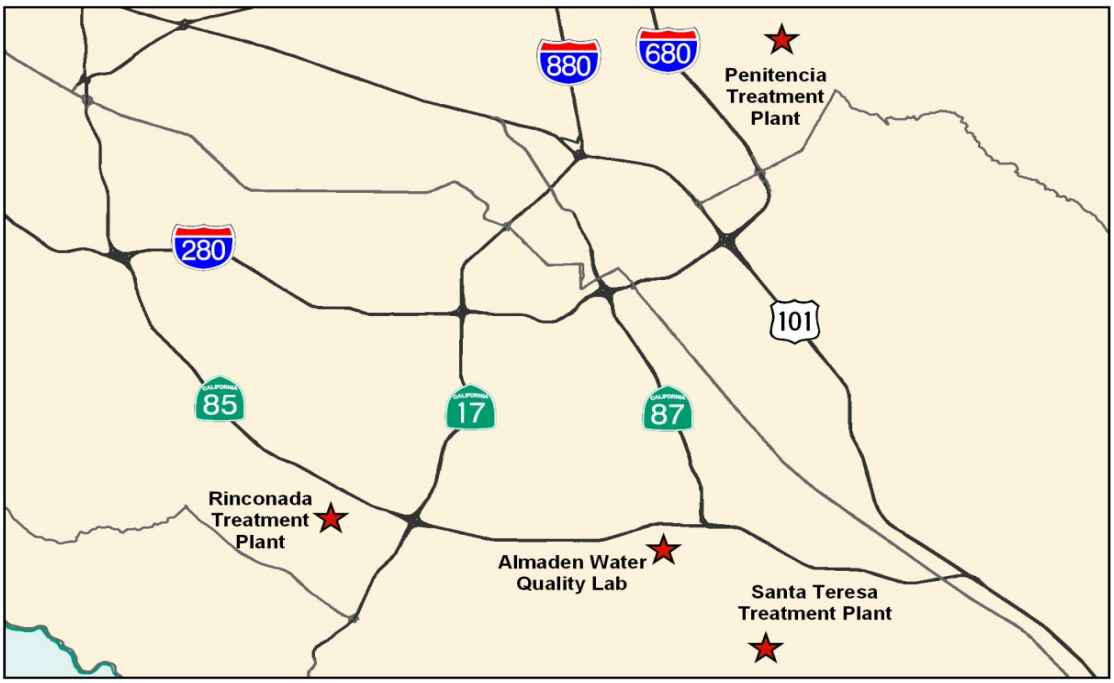
Sludge pond sediment removal at Santa Teresa Water Treatment Plant

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project implements a systematic approach of equipment replacement and renewal at the three water treatment plants and laboratory by designing and constructing improvements identified as part of the District's 10-year asset management program. Typical activities included in this project include pump, motor, instrumentation and valve replacement; chemical tank repairs; and large-scale renewal and replacement activities like clarifier mechanism overhaul and replacement. Planned projects to complete in FY 2015 for Santa Teresa Water Treatment Plant (STWTP) and Penitencia Water Treatment Plan (PWTP) include:

- Sediment removal of three ponds, removal of drain valves at three sediment ponds, and replacement of filter media on two filter basins at STWTP.
- Replacement of filter media on five filter basins at PWTP.
- Purchase a Trace Ultra Quadrapole GCMS Systme for MIB/Geosmin and THM's and VOC at Water Quality Lab.
- Purchase equipment, install, and train maintenance staff on spare parts.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93764004-Small Capital Improvements, Water Treatment	n/a	3,299	2,175	1,697	1,627	1,316	3,001	21,260	34,375
with inflation	n/a	3,299	2,175	1,835	1,830	1,540	3,651	32,095	46,426

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93764004-Small Capital Improvements, Water Treatment	n/a	3,299	0	2,175	1,835	1,830	1,540	3,651	32,095	46,426

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Excess funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	46,426
Other Funding Source	0
Total	**46,426**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

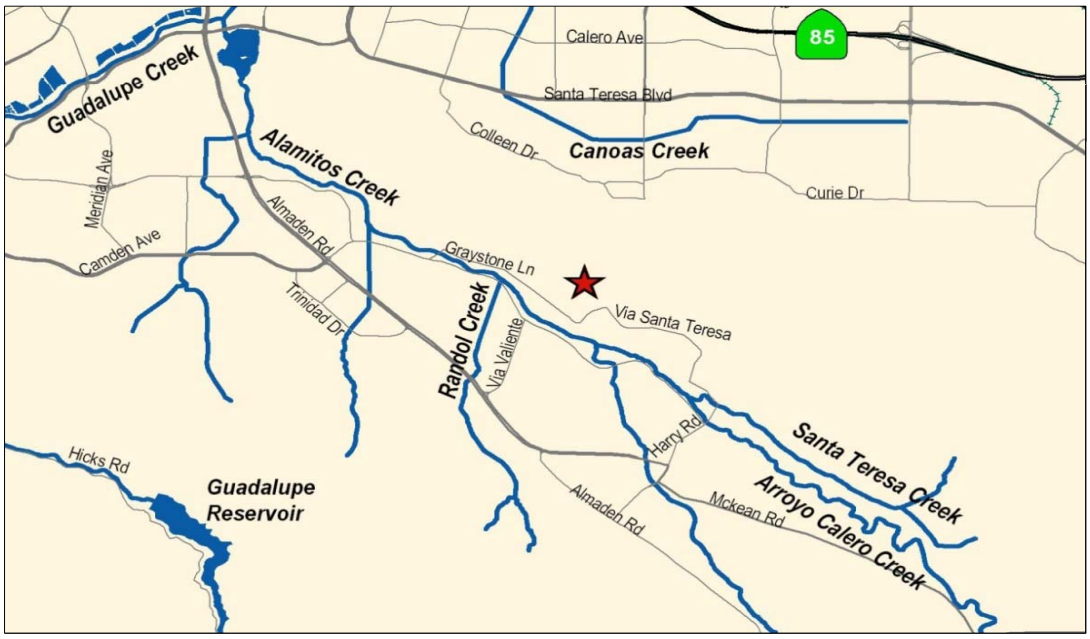
Project	**STWTP Incompatible Materials**
Program	Water Supply – Treatment
Priority No.	66
Project No.	93284030
District Contact	Katherine Oven koven@valleywater.org

New double contained piping installed to separate incompatible chemicals

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Santa Teresa Water Treatment Plant (STWTP) to separate incompatible chemicals in the chemical feed area, chemical trenches and storage facilities to meet Hazardous Material (HAZMAT) storage regulations.

PROJECT LOCATION



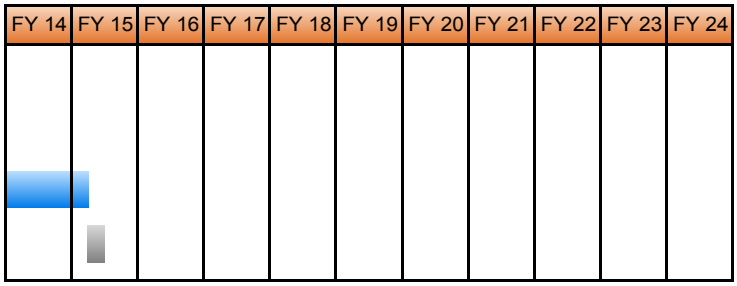
★ Project Location

SCHEDULE & STATUS

July 2001 to November 2014

Planning phase is complete.
Design phase is complete.

Phase	Cost
Plan	139
Design	3,642
Construct	6,170
Closeout	10
	9,961



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93284030-STWTP Incompatible Materials	12,138	1,415	199	0	0	0	0	0	13,752
with inflation	12,138	1,415	199	0	0	0	0	0	13,752

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
93284030-STWTP Incompatible Materials	12,412	1,183	42	157	0	0	0	0	0	13,752

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	13,752
Other Funding Source	0
Total	**13,752**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $4,500 per year, beginning in FY 2016. This project primarily replaces existing equipment with similar new equipment and a net increase of four mixers, which will require additional preventive maintenance.

USEFUL LIFE: Mechanical Elements – 35+ Year; Structural Elements – 50+ Years

Project	**Water Protection**
Program	Water Supply – Treatment
Priority No.	34
Project No.	94084005
District Contact	Katherine Oven koven@valleywater.org

Security inspection of vehicles entering Penitencia Water Treatment Plant

PROJECT DESCRIPTION

This project plans, designs, and constructs security modifications at the District's Water Utility facilities, in response to a security vulnerability assessment completed in 2003, to improve security and reduce terrorist threats to water service reliability.

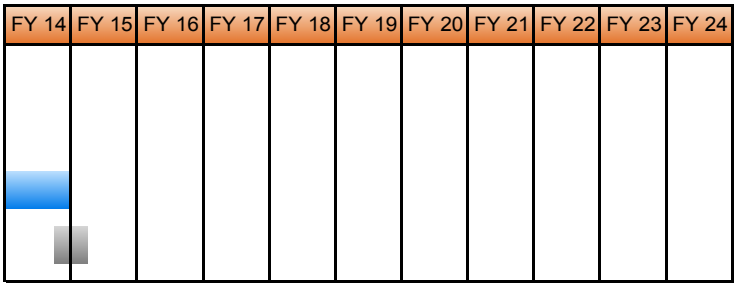
PROJECT LOCATION

This project will construct security improvements at the District's three water treatment plants and other Water Utility facilities. No project map is provided.

SCHEDULE & STATUS

June 2004 to September 2014

Phase	Cost
Plan	1,502
Design	1,142
Construct	5,066
Closeout	100
	7,810



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
94084005-Water Protection	9,370	1,029	62	0	0	0	0	0	10,461
with inflation	9,370	1,029	62	0	0	0	0	0	10,461

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
94084005-Water Protection	9,670	729	0	62	0	0	0	0	0	10,461

Adjusted Budget includes adopted budget plus a planned budget adjustment for $79,000.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	10,420
San Benito County Water District	41
Total	**10,461**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs, as the project does not significantly alter the existing facilities or modes of operations.

USEFUL LIFE: 15 years

Project **Silicon Valley Advanced Water Purification Center**
Program Water Supply - Recycled Water **Priority No.** 17
District Contact Katherine Oven koven@valleywater.org **Project No.** 91184008

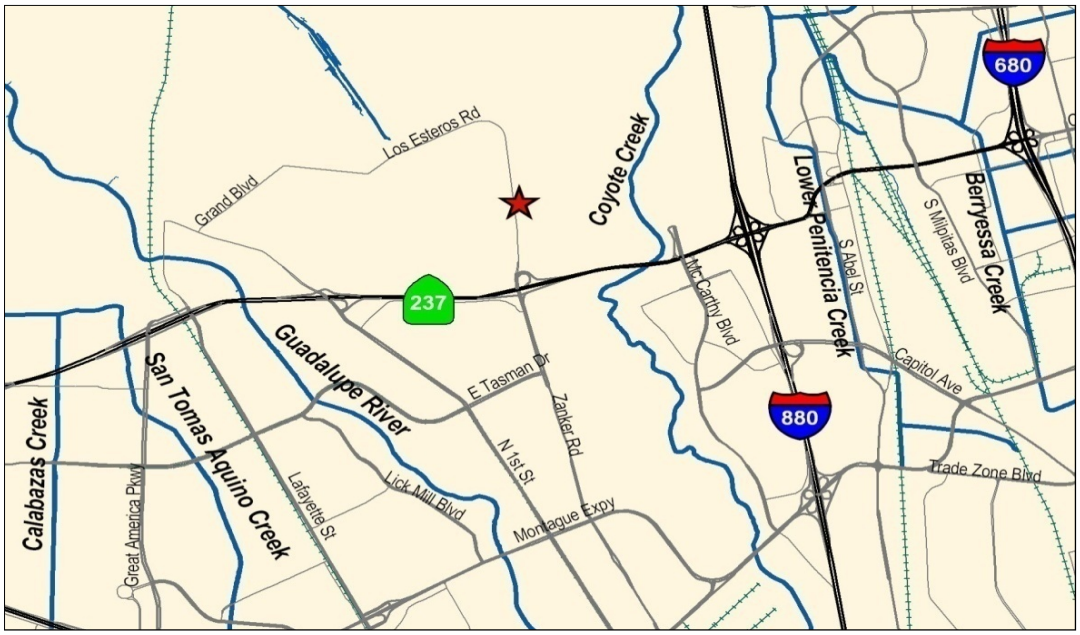
Panoramic view of the Silicon Valley Advanced Water Purification Center

PROJECT DESCRIPTION

This project plans, designs, and constructs a 10-mgd (million-gallons-per-day) Silicon Valley Advanced Water Purificaton Center (SVAWPC) within the footprint of the South Bay Water Recycling's Water Pollution Control Plant (WPCP) in San Jose, to accomplish the following objectives:

- Improve recycled water quality to enhance marketability.
- Increase the operational reliability and flexibility of recycled water.
- Retain existing customers who may have water quality (especially salinity) issues.
- Improve public acceptance of recycled water.
- Maximize water recycling alternatives.
- Reduce fresh water effluent discharges into San Francisco Bay to protect endangered species.
- Increase tertiary treatment capacity for the water pollution control plant.
- Preserve options for future groundwater recharge and reuse.

PROJECT LOCATION

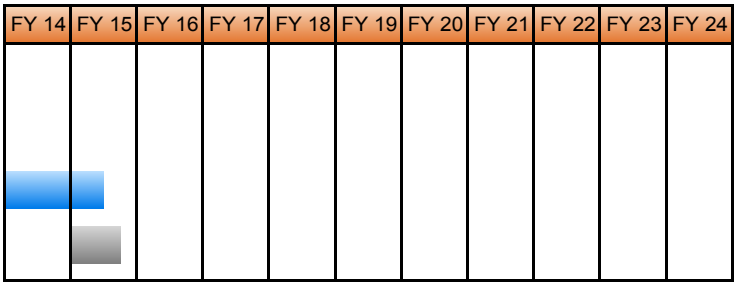


★ Project Location

SCHEDULE & STATUS

January 2004 to February 2015

Phase	Cost
Plan	2,322
Design	3,223
Construct	63,534
Closeout	103
	69,182



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91184008-Silicon Valley Advanced Water Purification Center	67,188	3,360	1,477	0	0	0	0	0	72,025
with inflation	67,188	3,360	1,477	0	0	0	0	0	72,025

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91184008-Silicon Valley Advanced Water Purification Center	67,424	3,124	0	1,477	0	0	0	0	0	72,025

Adjusted Budget includes adopted budget plus a planned budget adjustment of $475,000.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	49,980
City of San Jose	8,500
California Department of Water Resources - Prop 50	2,935
California Department of Water Resources - Prop 84	2,485
United States Bureau of Reclamation (USBR) ARRA	8,125
Total	**72,025**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase the District's operating costs by approximately $1.75 million per year, beginning in FY 2016. The City of San Jose will also be responsible for contributing the same amount to cover total annual operations costs of approximately $3.5 million. Total cost includes labor, membranes replacement, energy, UV lamp replacement, chemicals, and other necessary items.

USEFUL LIFE: 20-30 Years

Project	**South County Recycled Water Pipeline**
Program	Water Supply – Recycled Water
Priority No.	16
Project No.	91094007s
District Contact	Katherine Oven koven@valleywater.org

Recycled water purple pipeline waiting to be laid during construction of Immediate Term project

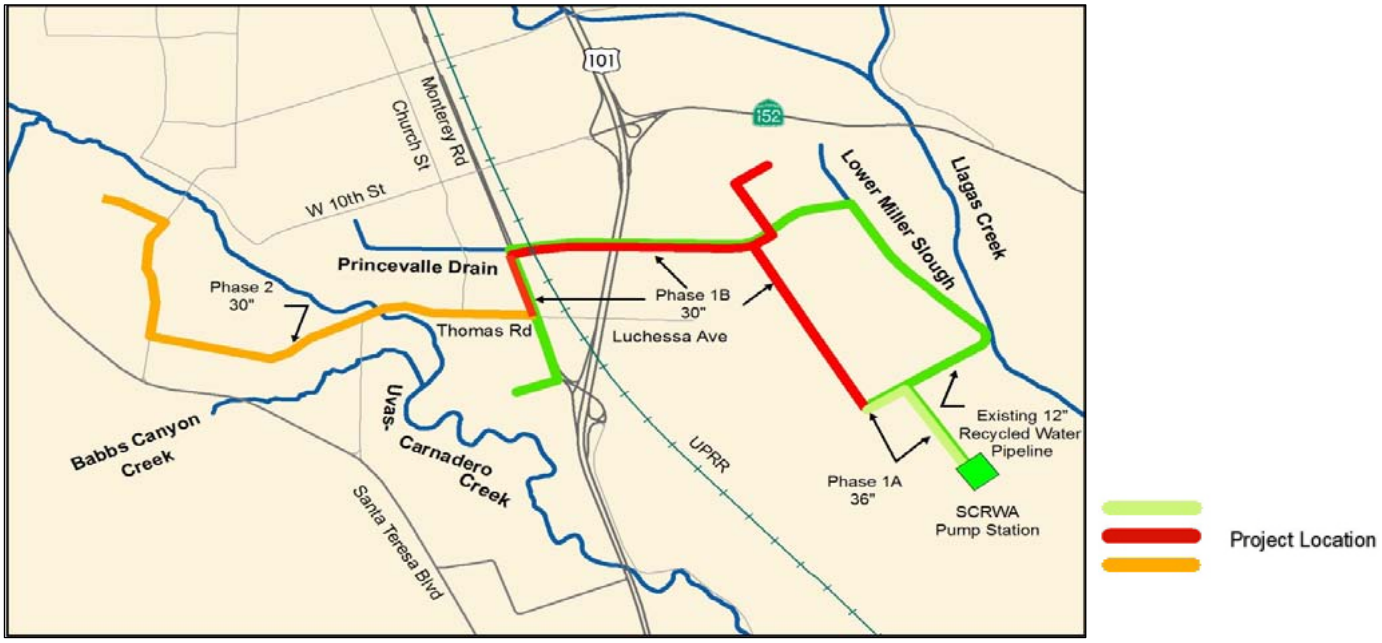
PROJECT DESCRIPTION

This project plans, designs, and constructs water recycling systems based on the South County Recycled Water Master Plan report that the District and South County Regional Wastewater Authority (SCRWA) Boards accepted in December 2004 to operate and expand the South County Recycled Water System.

The current Master Plan report presents a 20-year capital program for expanding water recycling in South County in three phases; Immediate Term, Short Term, and Long Term:

- Already complete: Gilroy Pipelines and Reservoir (Immediate Term) includes design and construction of recycled water storage, pumping, and distribution facilities for agricultural use near the SCRWA treatment plant (91094007).
- Currently underway: Gilroy Pipelines (Short Term) Phase 1A approximately 3000 feet of 30-inch and 36-inch pipeline is complete. Phase 1B will construct an additional 14,000 linear feet of pipeline. Together these two projects will improve system redundancy, reliability, and capacity.
- The Short-Term Phase 2 Recycled Water Pipeline alignment from the 2004 Master Plan will be completed through cost-sharing opportunities with the City of Gilroy and land developers. Construction of this work will install approximately 11,600 linear feet of 30-inch diameter pipe.
- Currently there is no plan to implement the long term component of the 2004 master plan.

PROJECT LOCATION

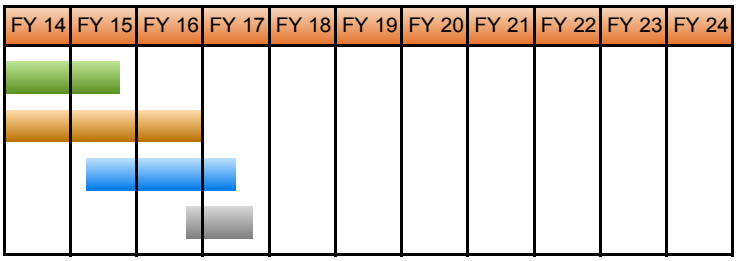


SCHEDULE & STATUS

July 2005 to April 2017

The schedule chart shows Short-Term Phase 1B and Phase 2 projects only. The Immediate-Term and Short-Term Phase 1A projects are complete.

Phase	Cost
Plan	3,877
Design	6,318
Construct	12,423
Closeout	179
	22,797



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91094007-Recycled Water South County Masterplan - Immediate Term	3,257	0	0	0	0	0	0	0	3,257
with inflation	3,257	0	0	0	0	0	0	0	3,257
91094008-Recycled Water South County Masterplan - Short Term 1A	5,391	0	0	0	0	0	0	0	5,391
with inflation	5,391	0	0	0	0	0	0	0	5,391
91094009-South County Recycled Water Pipeline - Short Term 1B	1,457	1,698	3,212	7,532	405	0	0	0	14,304
with inflation	1,457	1,698	3,212	7,893	456	0	0	0	14,716
91094010-South County Recycled Water Pipeline - Short Term 2	0	3,070	5,000	1,000	0	0	0	0	9,070
with inflation	0	3,070	5,000	1,040	0	0	0	0	9,110
TOTAL	**10,105**	**4,768**	**8,212**	**8,532**	**405**	**0**	**0**	**0**	**32,022**
with inflation	**10,105**	**4,768**	**8,212**	**8,934**	**456**	**0**	**0**	**0**	**32,474**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91094007-Recycled Water South County Masterplan - Immediate Term	3,257	0	0	0	0	0	0	0	0	3,257
91094008-Recycled Water South County Masterplan - Short Term 1A	5,391	0	0	0	0	0	0	0	0	5,391
91094009-South County Recycled Water Pipeline - Short Term 1B	1,378	1,777	0	3,212	7,893	456	0	0	0	14,716
91094010-South County Recycled Water Pipeline - Short Term 2	0	3,070	0	5,000	1,040	0	0	0	0	9,110
TOTAL	**10,026**	**4,847**	**0**	**8,212**	**8,934**	**456**	**0**	**0**	**0**	**32,474**

Adjusted Budget includes adopted budget plus planned budget adjustments totaling $70,000.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	30,471
South County Regional Wastewater Authority	708
United States Bureau of Reclamation (USBR) ARRA	1,295
Total	**32,474**

OPERATING COST IMPACTS

Estimated District share of the operating and maintenance costs are $8,000 per year for the Immediate-Term phase, beginning in FY 2007 and an additional $25,000 for the Short-Term Phase 1, beginning in FY 2018. Increases for Immediate Term are primarily labor costs for operating the new 3mg reservoir and its pump station. Increases for Short Term are labor and materials to maintain the 42,000 feet of new pipeline, exercising valves and cathodic protection.

USEFUL LIFE: Pipelines – 50 Year; Pumps – 20 Years

Project	**Water Supply Infrastructure Master Plan Implementation**
Program	Water Supply – Recycled Water
Priority No.	17
Project No.	91C40368s
District Contact	TBD TBD@valleywater.org

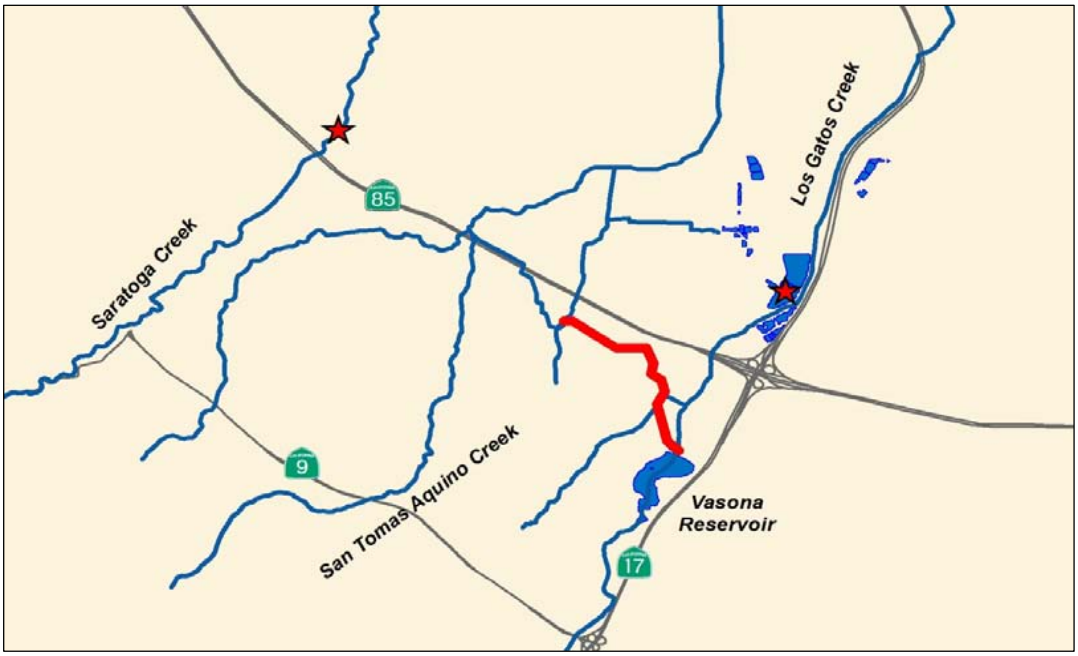
Reverse osmosis membranes used for water purification

PROJECT DESCRIPTION

This project plans, designs, and constructs the new infrastructure proposed in the 2012 Water Supply and Infrastructure Master Plan to provide for long-term water supply reliability to accomplish the following objectives:

- Optimize the use of existing supplies by constructing a new raw water pipeline and groundwater recharge pond.
- Increased recycled water use by increasing advanced water purification capacity, constructing a new pipeline, and using advanced treated water for groundwater recharge.

PROJECT LOCATION



Project Location

SCHEDULE & STATUS

July 2018 to June 2029

Phase	Cost
Plan	-
Design	-
Construct	22,367
Closeout	-
	22,367

FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91C40368 - WSIMPI - North County Recharge - Proj #3	0	0	0	0	0	0	1,506	12,120	13,626
with inflation	0	0	0	0	0	0	1,663	24,949	26,612
91C40380 - WSIMPI - Potable Reuse Recharge - Proj #17	0	0	0	0	0	0	11,919	304,580	316,499
with inflation	0	0	0	0	0	0	13,160	387,447	400,607
91C40381 - WSIMPI - Lexington Pipeline - Proj #38	0	0	0	0	0	0	1,094	15,342	16,436
with inflation	0	0	0	0	0	0	1,208	18,510	19,718
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**14,519**	**332,042**	**346,561**
with inflation	**0**	**0**	**0**	**0**	**0**	**0**	**16,030**	**430,907**	**446,937**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91C40368 - WSIMPI - North County Recharge - Proj #3	0	0	0	0	0	0	0	1,663	24,949	26,612
91C40380 - WSIMPI - Potable Reuse Recharge - Proj #17	0	0	0	0	0	0	0	13,160	387,447	400,607
91C40381 - WSIMPI - Lexington Pipeline - Proj #38	0	0	0	0	0	0	0	1,208	18,510	19,718
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**16,030**	**430,907**	**446,937**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	446,937
Other Funding Sources	0
Total	**446,937**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: Not Available

Project	**Wolfe Road Recycled Water Facility**
Program	Water Supply – Recycled Water
Priority No.	32
Project No.	91244001
District Contact	Katherine Oven koven@valleywater.org

Artist's rendering of the new Apple campus and surrounding grounds that will be maintained using recycled water supplied by the Wolfe Road pipeline

PROJECT DESCRIPTION

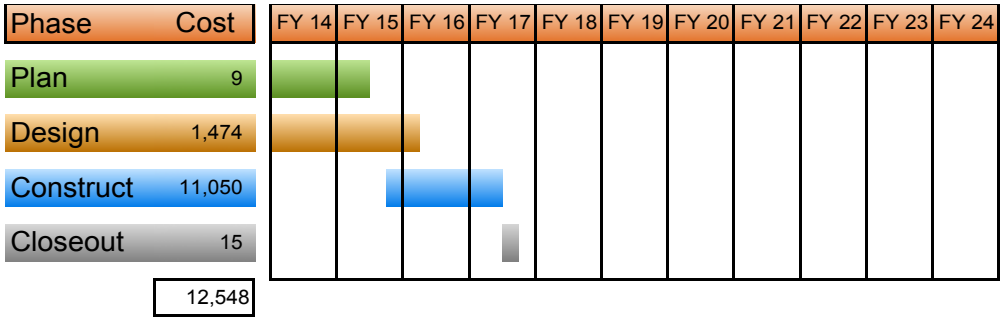
This project plans, designs, and constructs approximately 13,300 linear feet of pipeline along Wolfe Road to deliver recycled water to the west side of Sunnyvale and the new Apple campus in Cupertino.

PROJECT LOCATION

Project Location

SCHEDULE & STATUS

September 2013 to January 2017



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91244001-Wolfe Road Recycled Water Facility	0	654	9,954	1,725	215	0	0	0	12,548
with inflation	0	654	9,954	1,866	242	0	0	0	12,716

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91244001-Wolfe Road Recycled Water Facility	0	800	146	9,808	1,866	242	0	0	0	12,716

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,404
Apple Computers	4,800
Cal Water	1,500
City of Sunnyvale	3,012
Total	**12,716**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: 50 Years

Flood Protection Capital Improvements

FLOOD PROTECTION OVERVIEW

The District manages approximately 800 miles of creeks in Santa Clara County to meet the Board's Ends Policy E–3, "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations." The district's goals are further defined in E-3.1, "Provide natural flood protection for residents, businesses, and visitors" and E-3.2, "Reduce potential for flood damages." The 800 miles of creeks are located in five watersheds: Lower Peninsula, West Valley, Guadalupe, Coyote, and Uvas/Llagas. The District administers an asset management program for its flood protection infrastructure. The program includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended over its useful life.

Fifty years of working for flood protection has significantly reduced the intensity and frequency of flooding in Santa Clara County. By 2005 the District had provided flood protection to 93,253 of the 166,526 parcels in the flood plain and another 6,642 have been protected since then.

The voters in Santa Clara County have supported the District's flood protection efforts by approving benefit assessment funding in 1982, 1986, and 1990. Voters approved a special parcel tax in 2000 and 2012 to fund the continuation of the District's flood protection capital improvements, specifically, moving upstream from the completed downstream work or starting new work on creeks that have not had flood protection work.

Lower Peninsula Watershed

Major Capital Improvements Completed

- Adobe Creek from El Camino to Rhus Ridge
- Barron Creek
- Matadero Creek from Palo Alto Flood Basin to Barron Creek
- Stevens Creek from Highway 101 to Homestead Road

Major Capital Improvements Identified in the CIP

- Palo Alto Flood Basin Structure Improvements
- Permanente Creek from S.F. Bay to Foothill Expressway (Safe, Clean Water)
- San Francisquito Creek from S.F. Bay to Searsville Dam (Clean, Safe Creeks/Safe, Clean Water)

West Valley Watershed

Major Capital Improvements Completed

- Calabazas Creek from Guadalupe Slough to Miller Avenue
- San Tomas Creek from Southern Pacific Railroad to Cabrillo Avenue
- Saratoga Creek from San Tomas Creek to Lawrence Expressway

Major Capital Improvements Identified in the CIP

- Sunnyvale East and West Channels (Clean, Safe Creeks)

Guadalupe Watershed

Major Capital Improvements Completed

- Alamitos Creek
- Guadalupe River–Lower from Alviso Marina to Interstate 880
- Guadalupe River–Downtown from Interstate 880 to Interstate 280

Major Capital Improvements Identified in the CIP

- Guadalupe River–Upper, Interstate 280 to Blossom Hill Road (Clean, Safe Creeks/Safe, Clean Water)

Coyote Watershed

Major Capital Improvements Completed

- Coyote Creek from S.F. Bay to Montague Expressway
- Lower Penitencia Creek from Coyote Creek to Tasman Drive
- Lower Silver Creek from Coyote Creek to Interstate 680 (Reaches 1-3)
- Wrigley Ford Creek

Major Capital Improvements Identified in the CIP

- Berryessa Creek from Lower Penitencia Creek to Calaveras Boulevard
- Berryessa Creek from Calaveras Boulevard to Old Piedmont Road (Clean, Safe Creeks)
- Coyote Creek Montague Expressway to Interstate 280 (Clean, Safe Creeks)
- Upper Penitencia Creek from Coyote Creek to Dorel Drive (Safe, Clean Water)
- Lower Silver Creek from Interstate 680 to Lake Cunningham (Reaches 4-6)

Uvas/Llagas Watershed

Major Capital Improvements Completed

- Llagas Creek–Lower from Pajaro River to Buena Vista Road
- Uvas Creek

Major Capital Improvements Identified in the CIP

- Llagas Creek–Upper, Buena Vista Road to Llagas Road (Clean, Safe Creeks/Safe, Clean Water)
- Llagas Creek Capacity Restoration from Buena Vista Road to Pajaro River

Multiple Watersheds

Major Capital Improvements Identified in the CIP

- San Francisco Bay Shoreline (Safe, Clean Water)

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to ensure that the new flood protection projects proposed to be added to the Fiscal Year 2015-19 CIP reflect the Board's priorities. The priority criteria used are included in Appendix A.

A financial analysis of the Watershed and Steam Stewardship Fund and Safe, Clean Water Fund, the funding sources for flood protection capital improvements, was conducted to determine if there are limitations to funding all of the projects proposed for the Fiscal Year 2015-19 CIP. Results of the prioritization process and financial analysis are summarized in Appendix B.

The watershed financial outlook is significantly improved from recent years. The watersheds have benefited from higher than projected property tax revenue in fiscal years 2013 and 2014. The District will also receive $30 million from DWR to assist with construction of Lower Berryessa, Upper Berryessa, and Lower Penitencia.

The voter approved Safe, Clean Water program will provide funding for some of the highest priority unfunded projects including:

- San Francisco Bay Shoreline - Design and Partial Construction of EIA 11 and Planning for other EIAs
- Upper Penitencia Creek, Coyote to Dorel Drive
- San Francisquito Creek, SF Bay to Middlefield Road
- Upper Llagas Creek, Buena Vista Road to Wright Avenue
- Upper Guadalupe River, I-280 to Blossom Hill Road

Delays in the federal funding for many of the USACE projects have extended the schedules beyond the dates committed by the District. Therefore, the District is evaluating the option of proceeding with the local funding option on several of these projects.

The following high priority flood protection projects, unfunded or partially funded, are of major concern to meet the Board's Ends Policy E–3, "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations."

Partially Funded and Unfunded CIP Projects

- San Francisco Bay Shoreline Project - except EIA 11 (Design and Construction is unfunded)
- Coyote Creek, Montague Expressway to Interstate 280 (Construction is unfunded)
- Upper Berryessa Creek, Interstate 680 to Old Piedmont Road (unfunded; $20 million)

Flood Protection Capital Improvements

The following table is a project funding schedule for flood protection capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2013-14.

Flood Protection Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
	LOWER PENINSULA WATERSHED										
10394001	Palo Alto Flood Basin Structure Improvements	-	343	33	473	4,823	-	-	-	-	5,639
10244001s	Permanente Creek, SF Bay to Foothill Expressway	34,582	19,074	13,020	9,013	2,271	309	58	122	-	65,429
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	12,749	20,233	2,407	6,440	18,152	1,350	117	-	-	59,041
	WEST VALEY WATERSHED										
20194005	San Tomas Creek, Quito Road Bridge Replacement	292	-	-	99	173	28	-	-	-	592
26074002	Sunnyvale East and West Channels	14,454	13,712	9,057	17,644	20,903	-	-	-	-	66,713
	GUADALUPE WATERSHED										
26154001s	Guadalupe River–Upper, I-280 to Blossom Hill Road	102,183	-	14,567	386	28,383	7,222	8,274	13,804	20,484	180,736
	COYOTE WATERSHED										
26174041s	Berryessa Creek, Calaveras Boulevard to Interstate 680	14,590	14,249	6,194	-	16,154	1,919	1,013	921	447	49,293
40174004	Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd	39,415	4,946	-	27,812	8,605	640	15	12	63	81,508
26174043	Coyote Creek, Montague Expressway to Interstate 280	15,996	2,990	8,102	-	-	-	7,924	1,083	633	28,626
40264011	Improvements at Cunningham Park	885	1,832	1,629	1,741	379	1,386	351	304	44	6,922
40334005	Lower Penitencia Ck Improvements, Berryessa to Coyote (	1,128	1,784	371	1,895	1,698	45	23	-	-	6,573
40264007s	Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	86,770	104	638	4,730	149	-	-	-	-	91,753
40324003s	Upper Penitencia Creek, Coyote Creek to Dorel Drive	17,434	80	5,271	-	8,394	2,382	3,431	3,568	33,524	68,813
	UVAS LLAGAS WATERSHED										
50284010	Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	4,695	6,931	7,419	-	-	-	-	-	-	11,626
26174051s	Llagas Creek–Upper, Buena Vista Avenue to Llagas Road	28,750	35,481	106	16,648	51,434	29,939	-	-	-	162,252
	MULTIPLE WATERSHEDS										
00044026s	San Francisco Bay Shoreline	12,021	937	138	7,488	4,952	6,104	4,365	4,461	4,560	44,888
62084001	Small Capital Improvements - Watersheds	-	-	-	700	700	700	700	700	-	3,500
	TOTAL	385,944	122,696	68,952	95,069	167,170	52,024	26,271	24,975	59,755	933,904

The following table shows funding requirements from each funding source for flood protection capital improvements.

Flood Protection - Funding Sources ($K)

Fund Number	FUND NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
12	Watershed Stream Stewardship Fund	186,796	16,357	16,551	38,466	16,527	2,799	1,089	1,016	107	263,157
26	Safe, Clean Water and Natural Flood Protection Fund	199,148	106,339	52,401	56,603	150,643	49,225	25,182	23,959	59,648	670,747
	TOTAL	385,944	122,696	68,952	95,069	167,170	52,024	26,271	24,975	59,755	933,904

FY 2013-14 Funds to be reappropriated

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Project	**Palo Alto Flood Basin Structure Improvements**
Program	Flood Protection - Lower Peninsula Watershed
Priority No.	93
Project No.	10394001
District Contact	Melanie Richardson mrichardson@valleywater.org

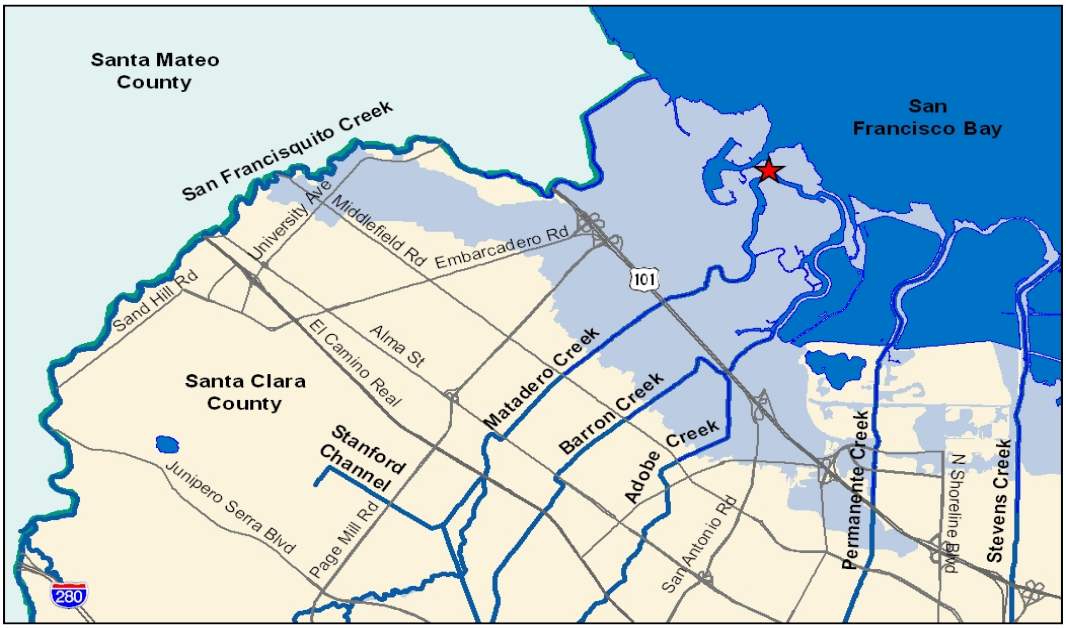
View from the west side of the Palo Alto tide gates facing east

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Palo Alto Flood Basin structure to accomplish the following objectives:

- Replace or repair the existing structure to improve the functionality of the flood barrier system.
- Reduce the possibility of flooding in lower reaches of Matadero, Adobe, and Barron Creeks.
- Prevent environmental impacts due to submergence of habitat areas within the Basin for Salt Marsh Harvest Mouse, California Clapper Rail bird and the Black Rail bird.
- Prevent impacts due to sea level rise or a 100-year fluvial flood.

PROJECT LOCATION

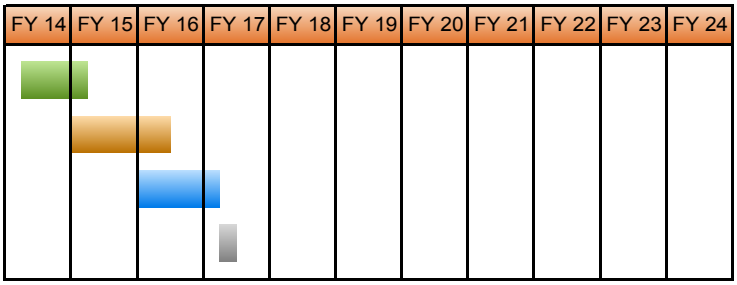


★ Project Location

SCHEDULE & STATUS

October 2014 to December 2016

Phase	Cost
Plan	501
Design	757
Construct	4,150
Closeout	-
	5,408



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
10394001-Palo Alto Flood Basin Structure Improvements	0	310	506	4,592	0	0	0	0	5,408
with inflation	0	310	506	4,823	0	0	0	0	5,639

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
10394001-Palo Alto Flood Basin Structure Improvements	0	343	33	473	4,823	0	0	0	0	5,639

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed and Stream Stewardship Fun	5,639
Other Funding Sources	0
Total	**5,639**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: 50 Years

Project	**Permanente Creek, San Francisco Bay to Foothill Expressway**
Program	Flood Protection – Lower Peninsula Watershed
Priority No.	94
Project No.	10244001s
District Contact	Melanie Richardson mrichardson@valleywater.org

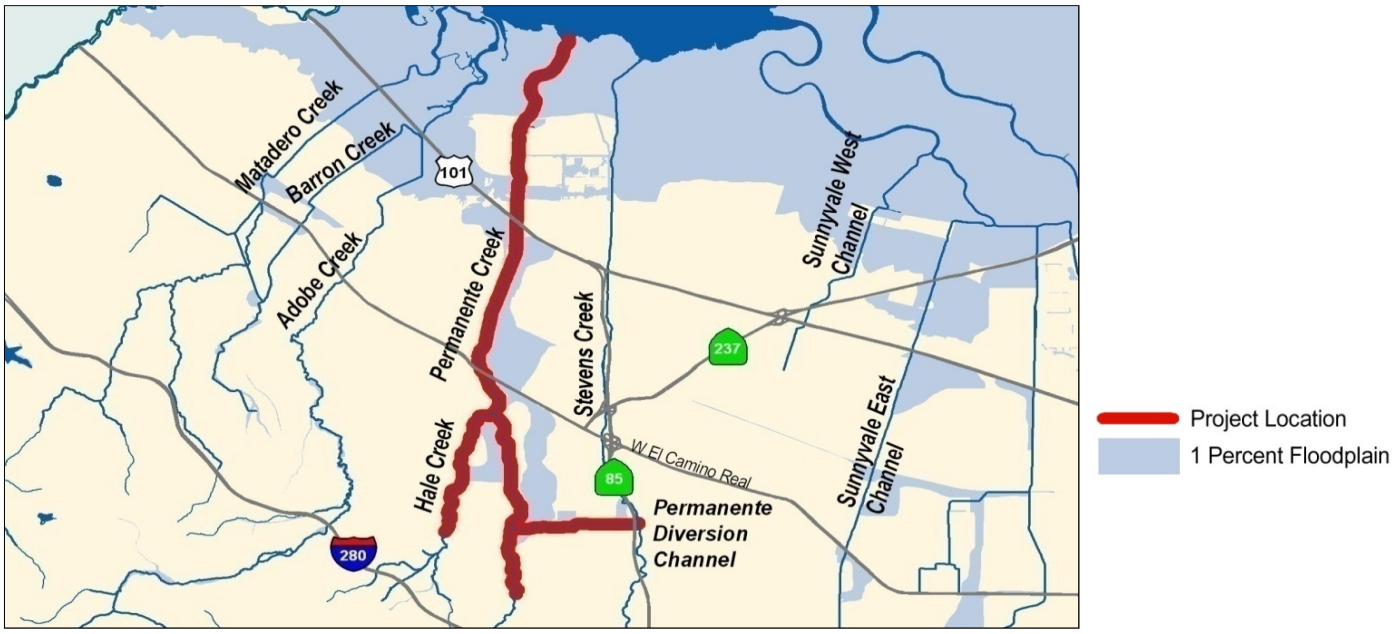
Permanente Creek, looking downstream at the golf course foot bridge

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along 10.6 miles of Permanente Creek, from San Francisco Bay to Foothill Expressway, Hale Creek from Foothill Expressway to its confluence with Permanente Creek, and the diversion structure between Permanente and Stevens Creeks, to accomplish the following objectives:

- Provide flood protection to 1,664 parcels, including Middlefield Road and Central Expressway.
- Reduce erosion and sedimentation, reduce maintenance costs, and improve safety and stability of the failing channel on Permanente Creek from the San Francisco Bay to Foothill Expressway.
- Provide environmental restoration and enhancement benefits, where opportunities exist.
- Provide recreation enhancements, where opportunities exist.
- Provide natural flood protection by taking a multiple-objective approach.

PROJECT LOCATION

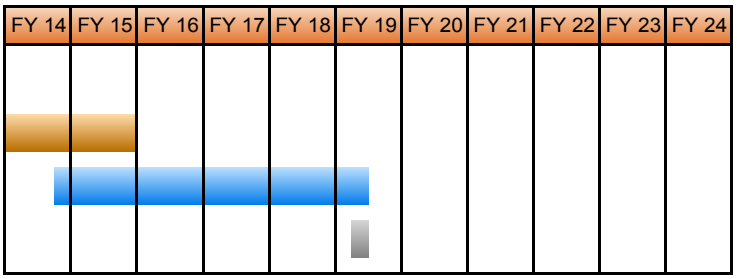


SCHEDULE & STATUS

July 2001 to December 2018

Construction includes multiple contract phases and three years of plant establishment monitoring.

Phase	Cost
Plan	12,676
Design	13,474
Construct	38,814
Closeout	100
	65,064



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
10244001-Permanente Ck, Bay to Foothill Expwy – Lower Peninsula Fund	17,364	0	0	0	0	0	0	0	17,364
with inflation	17,364	0	0	0	0	0	0	0	17,364
26244001-Permanente Ck, Bay to Foothill Expwy – Clean, Safe Creeks Fund	8,272	15,000	21,856	2,100	275	50	100	0	47,653
with inflation	8,272	15,000	21,856	2,271	309	58	122	0	47,889
TOTAL	25,636	15,000	21,856	2,100	275	50	100	0	65,017
with inflation	25,636	15,000	21,856	2,271	309	58	122	0	65,253

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
10244001-Permanente Ck, Bay to Foothill Expwy – Lower Peninsula Fund	17,541	0	177	0	0	0	0	0	0	17,541
26244001-Permanente Ck, Bay to Foothill Expwy – Clean, Safe Creeks Fund	17,041	19,074	12,843	9,013	2,271	309	58	122	0	47,889
TOTAL	**34,582**	**19,074**	**13,020**	**9,013**	**2,271**	**309**	**58**	**122**	**0**	**65,430**

Adjusted Budget includes adopted budget plus approved budget adjustments. Total Funding exceed total planned expenditures by approximately $177,000. Excess funds will be returned to the fund reserver at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	17,541
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	47,889
Total	**65,430**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $100,000 per year, beginning in FY 2017. Increases in operations and maintenance costs include sediment removal at three flood detention sites, and bypass channel inlet and outlet operations and maintenance.

USEFUL LIFE: 30+ Years

Project	**San Francisquito Creek, San Francisco Bay through Searsville Dam**
Program	Flood Protection – Lower Peninsula Watershed
Priority No.	79
Project No.	10284007s
District Contact	Melanie Richardson mrichardson@valleywater.org

Upstream face of Pope/Chaucer Street with water surface approximately 2 feet below the soffit

PROJECT DESCRIPTION

This project provides coordination and support to the San Francisquito Joint Powers Authority, in partnership with the U.S. Army Corps of Engineers, to complete planning and design documents for an approved project alternative on San Francisquito Creek, from San Francisco Bay through Searsville Dam. This project will accomplish the following objectives:

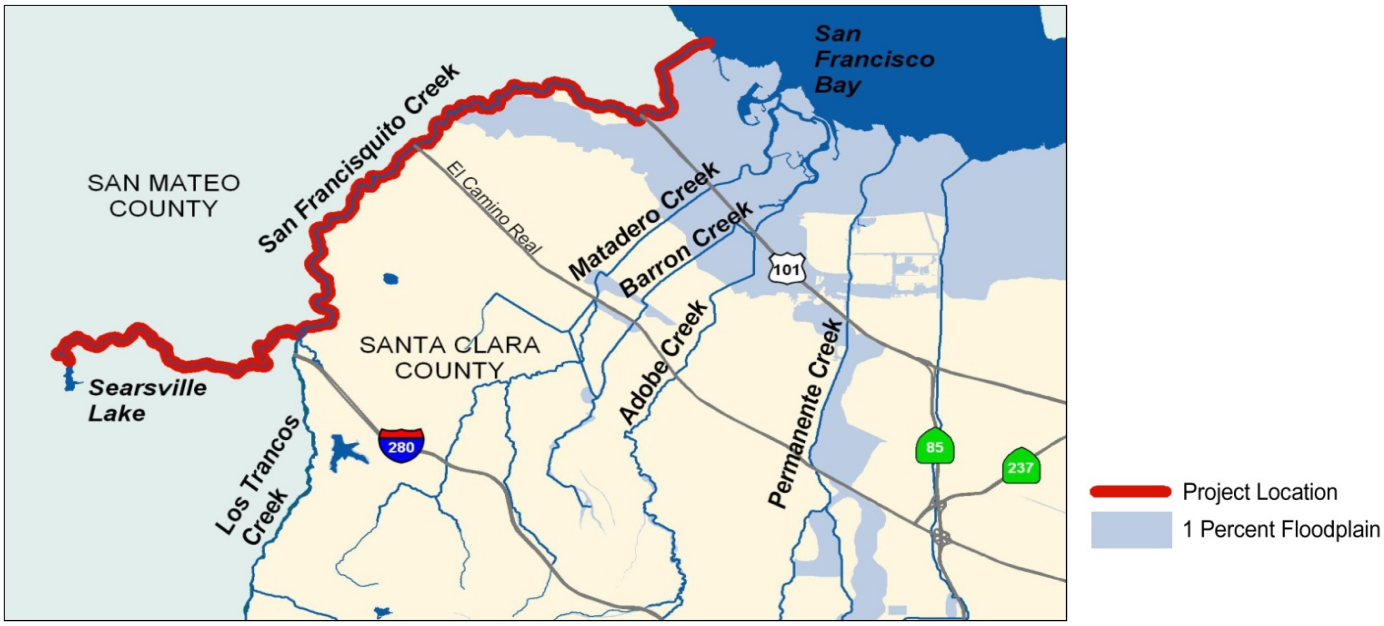
- Provide flood protection.
- Reduce bank erosion and sedimentation-related impacts along San Francisquito Creek.
- Avoid potential adverse impacts on fish and wildlife habitats.
- Minimize impacts to the creek's environmental resources and restore the riparian corridor where feasible.
- Develop public support for the preferred alternative.

The San Francisquito construction project will provide 100-year flood protection from San Francisco Bay to Highway 101 starting in FY15 and replace four bridges between Highway 101 and Middlefield Road with construction starting in FY16.

This project is accounted for in the following job numbers:

- 10284007 – SF Bay through Searsville Dam
- 10284008 – Early Implementation
- 26284001 – SF Bay through Searsville Dam
- 26284002 – Construction - San Francisco Bay to Middlefield Rd.

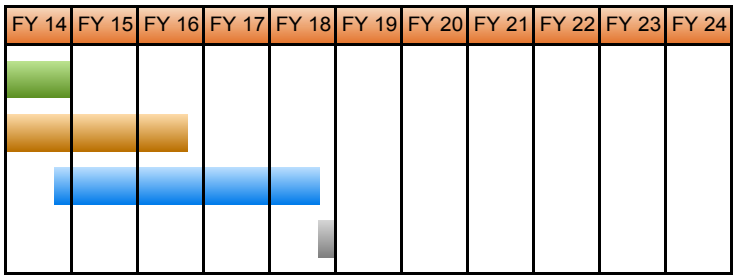
PROJECT LOCATION



SCHEDULE & STATUS

June 2003 to June 2017

Phase	Cost
Plan	4,894
Design	10,147
Construct	39,945
Closeout	100
	55,086



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
10284007-San Francisquito Ck, Bay-Searsville Dam	4,064	51	0	0	0	0	0	0	4,115
with inflation	4,064	51	0	0	0	0	0	0	4,115
10284008-San Francisquito Ck, Early Implementation	1,625	0	0	0	0	0	0	0	1,625
with inflation	1,625	0	0	0	0	0	0	0	1,625
26284001-San Francisquito Ck, Bay-Searsville Dam	3,261	1,891	1,529	0	0	0	0	0	6,681
with inflation	3,261	1,891	1,529	0	0	0	0	0	6,681
26284002-San Francisquito Ck - Construction - SF Bay to Middlefield Rd.	1,395	18,288	6,440	17,400	1,200	100	0	0	44,823
with inflation	1,395	18,288	6,440	18,152	1,350	117	0	0	45,742
TOTAL	**10,345**	**20,230**	**7,969**	**17,400**	**1,200**	**100**	**0**	**0**	**57,244**
with inflation	**10,345**	**20,230**	**7,969**	**18,152**	**1,350**	**117**	**0**	**0**	**58,163**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
10284007-San Francisquito Ck, Bay-Searsville Dam	4,918	0	803	0	0	0	0	0	0	4,918
10284008-San Francisquito Ck, Early Implementation	1,697	0	72	0	0	0	0	0	0	1,697
26284001-San Francisquito Ck, Bay-Searsville Dam	3,919	2,765	1,532	0	0	0	0	0	0	6,684
26284002-San Francisquito Ck - Construction - SF Bay to Middlefield Rd.	2,215	17,468	0	6,440	18,152	1,350	117	0	0	45,742
TOTAL	**12,749**	**20,233**	**2,407**	**6,440**	**18,152**	**1,350**	**117**	**0**	**0**	**59,041**

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately $878,000. Excess funding will be returned to reserves upon completion of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	6,615
SCVWD Safe, Clean Water and Natural Flood Protection Fund	44,426
San Francisquito Joint Powers Authority (DWR)	8,000
Total	**59,041**
U.S. Army Corps of Engineers - In-kind Services	3,000
County of San Mateo - In-kind Services	1,500

County and Corps participation are for Feasibility Study activities only.
Additional funding will be negotiated during subsequent phases.

OPERATING COST IMPACTS

No operating budget impacts are expected from the construction of this project.

USEFUL LIFE: Not Available

Project	**San Tomas Creek, Quito Road Bridges Replacement**
Program	Flood Protection - West Valley Watershed
Priority No.	54
Project No.	20194005
District Contact	Liang Lee llee@valleywater.org

San Tomas Aquino Creek, looking upstream at one of the Quito Road bridge crossings and an adjacent pedestrian footbridge.

PROJECT DESCRIPTION

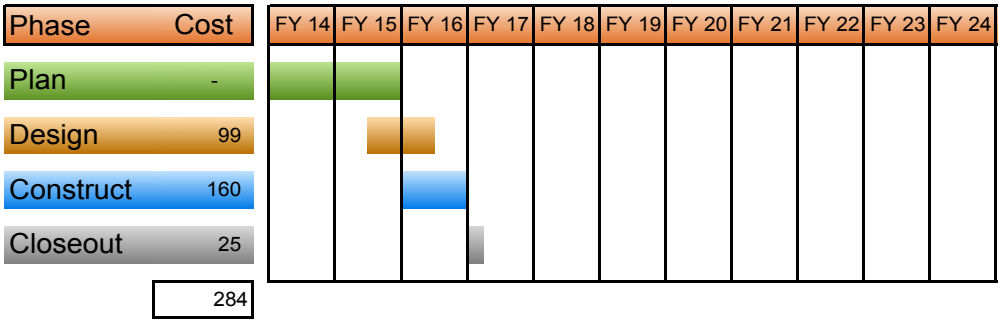
This project partners with the City of Saratoga, the Town of Los Gatos, and Caltrans to plan, design, and construct two bridge replacements on San Tomas Aquino Creek at Quito Road, to provide one-percent flood protection.

PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2001 to September 2016



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
20194005-San Tomas Creek, Quito Road Bridges Replacement	292	0	99	160	25	0	0	0	576
with inflation	292	0	99	173	28	0	0	0	592

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
20194005-San Tomas Creek, Quito Road Bridges Replacement	292	0	0	99	173	28	0	0	0	592

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	592
Other Funding Sources	0
Total	**592**
City of Saratoga	300
Town of Los Gatos	300
Caltrans (Highway Bridge Replacement and Rehabilitation Program) - 80%	4,115

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease District operating costs as the facility is owned by the City of Saratoga.

USEFUL LIFE: 30+ Years

Project	**Sunnyvale East and West Channels Improvement**
Program	Flood Protection – West Valley Watershed
Priority No.	80
Project No.	26074002
District Contact	Melanie Richardson mrichardson@valleywater.org

Sunnyvale West Channel looking upstream from Java Drive

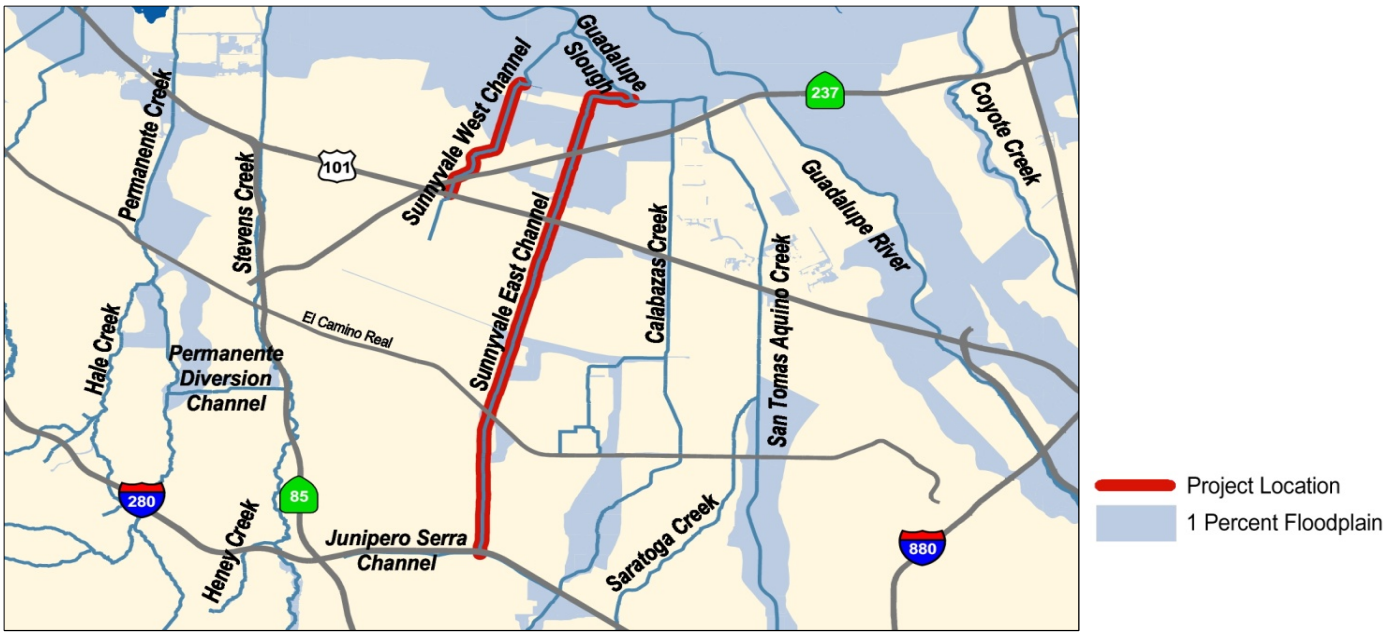
PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to approximately 6.4 miles of the Sunnyvale East Channel, from Guadalupe Slough to Interstate 280, and 2.3 miles of the Sunnyvale West Channel, from Guadalupe Slough to Highway 101, to accomplish the following objectives:

- Provide flood protection to over 1,600 parcels along Sunnyvale East and West Channels.
- Provide environmental enhancement benefits where opportunities exist.
- Provide recreation enhancements where opportunities exist.
- Reduce erosion, sedimentation, and maintenance costs.
- Protect fish and wildlife habitat.

The Sunnyvale East and Sunnyvale West Channels were originally identified as separate projects. In order to improve efficiency by combining efforts, the planning, design and construction phases for both projects will be performed as a single effort.

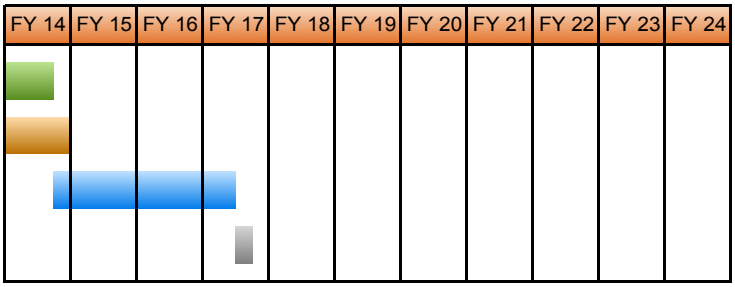
PROJECT LOCATION



SCHEDULE & STATUS

March 2006 to March 2017

Phase	Cost
Plan	6,200
Design	11,675
Construct	47,867
Closeout	50
	65,792



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26074002-Sunnyvale East and West Channels Improvement	10,397	8,712	26,701	20,050	0	0	0	0	65,860
with inflation	10,397	8,712	26,701	20,903	0	0	0	0	66,713

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26074002-Sunnyvale East and West Channels Improvement	14,454	13,712	9,057	17,644	20,903	0	0	0	0	66,713

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	66,713
Other Funding Source	0
Total	**66,713**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $50,000 per year, beginning in FY 2017. Increases in operations and maintenance costs include graffiti removal, mowing and weed control under the levees, and for operation and maintenance of the Pond A4 detention basin.

USEFUL LIFE: 30+ Years

Project	**Guadalupe River–Upper, Interstate 280 to Blossom Hill**
Program	Flood Protection – Guadalupe Watershed
Priority No.	77
Project No.	26154001s
District Contact	Melanie Richardson mrichardson@valleywater.org

Flooding from Guadalupe River on Willow Street near the Southern Pacific Railroad Bridge

PROJECT DESCRIPTION

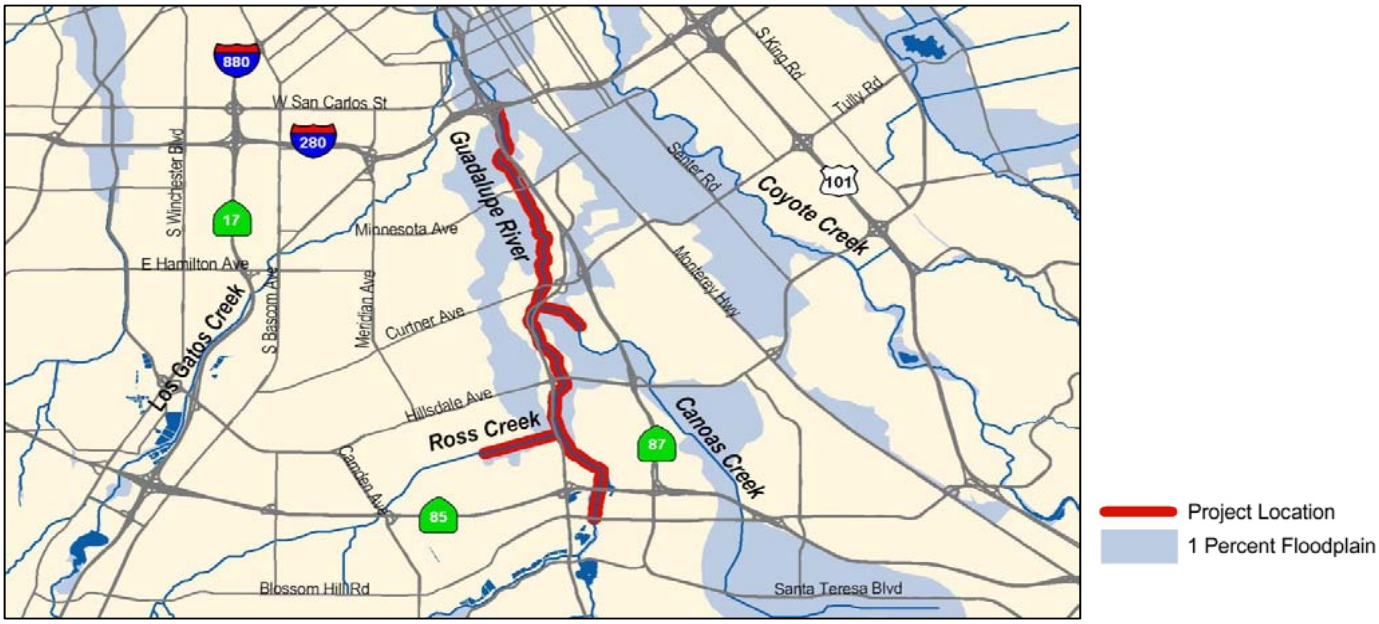
This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements along approximately 6 miles of the Guadalupe River, from Interstate 280 to Blossom Hill Road, to accomplish the following objectives:

- Provide one-percent flood protection to nearly 7,000 parcels along the Guadalupe River, from I-280 to Blossom Hill Road, including portions of Ross Creek and Canoas Creek.
- Provide long-term net gains of 15 acres in riparian forest acreage, quality, and continuity of wildlife habitat, and conditions favoring Chinook salmon and steelhead trout.
- Provide access to an additional 19 miles of suitable upstream spawning and rearing habitat, which would result in significant long-term beneficial impacts on fisheries resources.
- Coordinate with the City of San Jose and the community to establish a continuous maintenance road suitable for trail development between Interstate 280 and Los Alamitos Creek.
- Improve water quality by reducing bank erosion and sedimentation-related impacts along the river and tributaries.
- Address and resolve permit coordination activities and watershed integration issues through the Guadalupe Watershed Integration Working Group.

This project is accounted for in the following job numbers:

- 26154001—Fish Passage Modification (Completed)
- 26154002—I-280 to Southern Pacific Railroad Bridge (Reach 6)
- 26154003—Southern Pacific Railroad Bridge to Blossom Hill Road (Reaches 7-12)

PROJECT LOCATION

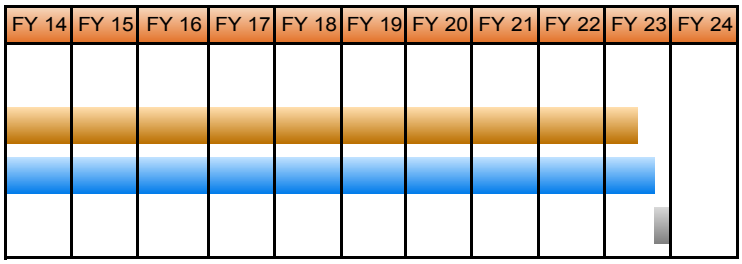


SCHEDULE & STATUS

July 2001 to June 2023

Planning phase is complete. Design and construction of eight individual reaches are being done sequentially.

Phase	Cost
Plan	10,850
Design	83,785
Construct	75,738
Closeout	163
	n/a



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26154001-Guadalupe Rv—Upr, Fish Passage Mod	2,651	0	0	0	0	0	0	0	2,651
with inflation	2,651	0	0	0	0	0	0	0	2,651
26154002-Guadalupe Rv—Upr, I-280 to SPRR (R6	31,402	880	1,814	571	0	0	0	0	34,667
with inflation	31,402	880	1,814	618	0	0	0	0	34,714
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12)	35,537	9,259	10,392	29,010	6,505	7,185	11,485	16,855	126,228
with inflation	35,537	9,259	10,392	30,512	7,222	8,274	13,804	20,484	135,484
Actuals in closed project numbers	7,887	0	0	0	0	0	0	0	7,887
with inflation	7,887	0	0	0	0	0	0	0	7,887
TOTAL	**77,477**	**10,139**	**12,206**	**29,581**	**6,505**	**7,185**	**11,485**	**16,855**	**171,433**
with inflation	**77,477**	**10,139**	**12,206**	**31,130**	**7,222**	**8,274**	**13,804**	**20,484**	**180,736**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26154001-Guadalupe Rv—Upr, Fish Passage Mod	2,651	0	0	0	0	0	0	0	0	2,651
26154002-Guadalupe Rv—Upr, I-280 to SPRR (R6	33,710	0	1,428	386	618	0	0	0	0	34,714
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12)	57,935	0	13,139	0	27,765	7,222	8,274	13,804	20,484	135,484
Actuals in closed project numbers	7,887	0	0	0	0	0	0	0	0	7,887
TOTAL	**102,183**	**0**	**14,567**	**386**	**28,383**	**7,222**	**8,274**	**13,804**	**20,484**	**180,736**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	124,052
SCVWD Watershed Stream Stewardship Fund	12,000
SCVWD Safe, Clean Water and Natural Flood Protection Fund	19,299
State of California	21,600
City of San Jose	3,785
Total	**180,736**
U.S. Army Corps of Engineers - In-kind Services	136,571

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $480,000 per year, beginning in FY 2020, for mitigation and monitoring labor and equipment, implementation of adaptive management measures, and operations and maintenance in accordance with the Corps Operations and Maintenance Manual.

USEFUL LIFE: 30+ Years

Project	**Berryessa Creek, Calaveras Boulevard to Interstate 680**
Program	Flood Protection – Coyote Watershed
Priority No.	53
Project No.	26174041s
District Contact	Melanie Richardson mrichardson@valleywater.org

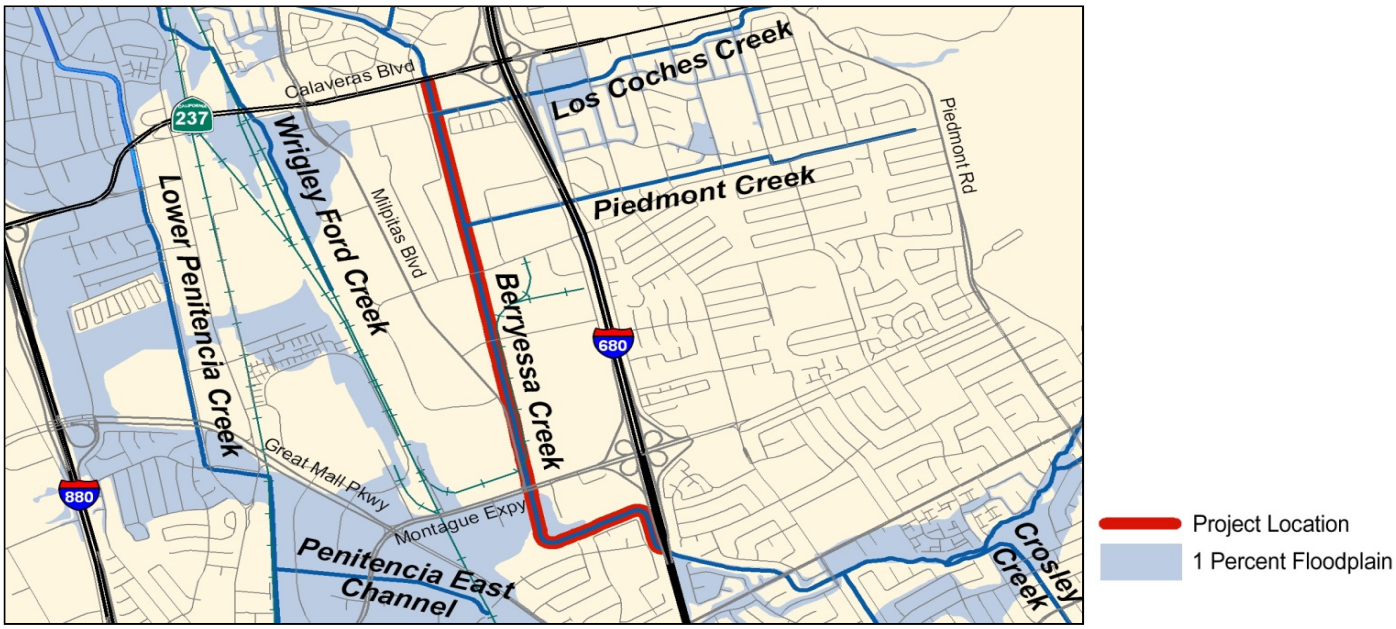
Berryessa Creek near flood stage at Piedmont Road in San Jose

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements along approximately 2 miles of Berryessa Creek, from Calaveras Boulevard to Interstate 680, to accomplish the following objectives:

- Provide one-percent flood protection to more than 1,800 homes, businesses, and public buildings.
- Reduce sedimentation and maintenance requirements.
- Mitigate for project impacts.
- Improve stream habitat values.
- Coordinate with the cities of San Jose and Milpitas, and the community to establish a continuous maintenance road suitable for trail development along the Berryessa Creek project.
- Obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency (FEMA).
- Incorporate the District's Clean, Safe Creeks and Natural Flood Protection Program Objectives.

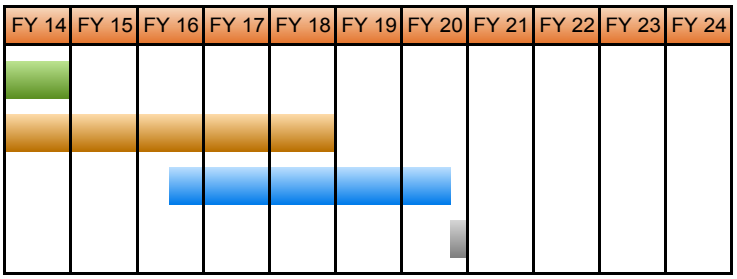
PROJECT LOCATION



SCHEDULE & STATUS

January 2000 to June 2020

Phase	Cost
Plan	7,744
Design	12,835
Construct	25,652
Closeout	80
	46,311



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26174041-Berryessa Creek, Corps Coordination	8,398	80	428	14,808	1,763	903	803	353	27,536
with inflation	8,398	80	428	15,444	1,919	1,013	921	447	28,649
26174042-Berryessa Creek, LERRDs	759	13,408	3,158	3,067	0	0	0	0	20,392
with inflation	759	13,408	3,158	3,317	0	0	0	0	20,642
TOTAL	**9,157**	**13,488**	**3,586**	**17,875**	**1,763**	**903**	**2,527**	**1,153**	**47,928**
with inflation	**9,157**	**13,488**	**3,586**	**18,761**	**1,919**	**1,013**	**921**	**447**	**49,291**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26174041-Berryessa Creek, Corps Coordination	9,299	76	897	0	14,975	1,919	1,013	921	447	28,649
26174042-Berryessa Creek, LERRDs	5,291	14,173	5,297	0	1,178	0	0	0	0	20,642
TOTAL	**14,590**	**14,249**	**6,194**	**0**	**16,153**	**1,919**	**1,013**	**921**	**447**	**49,291**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	17,800
State of California	21,491
Department of Water Resources (Prop 1E)	10,000
Total	**49,291**
U.S. Army Corps of Engineers - In-kind Services	25,000

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $80,000 per year, beginning in FY 2021, to maintain approximately 2 miles of new levees and flood walls, and for activities such as vegetation spraying and graffiti removal.

USEFUL LIFE: 30+ Years

Project	**Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard**
Program	Flood Protection – Coyote Watershed
Priority No.	67
Project No.	40174004
District Contact	Melanie Richardson mrichardson@valleywater.org

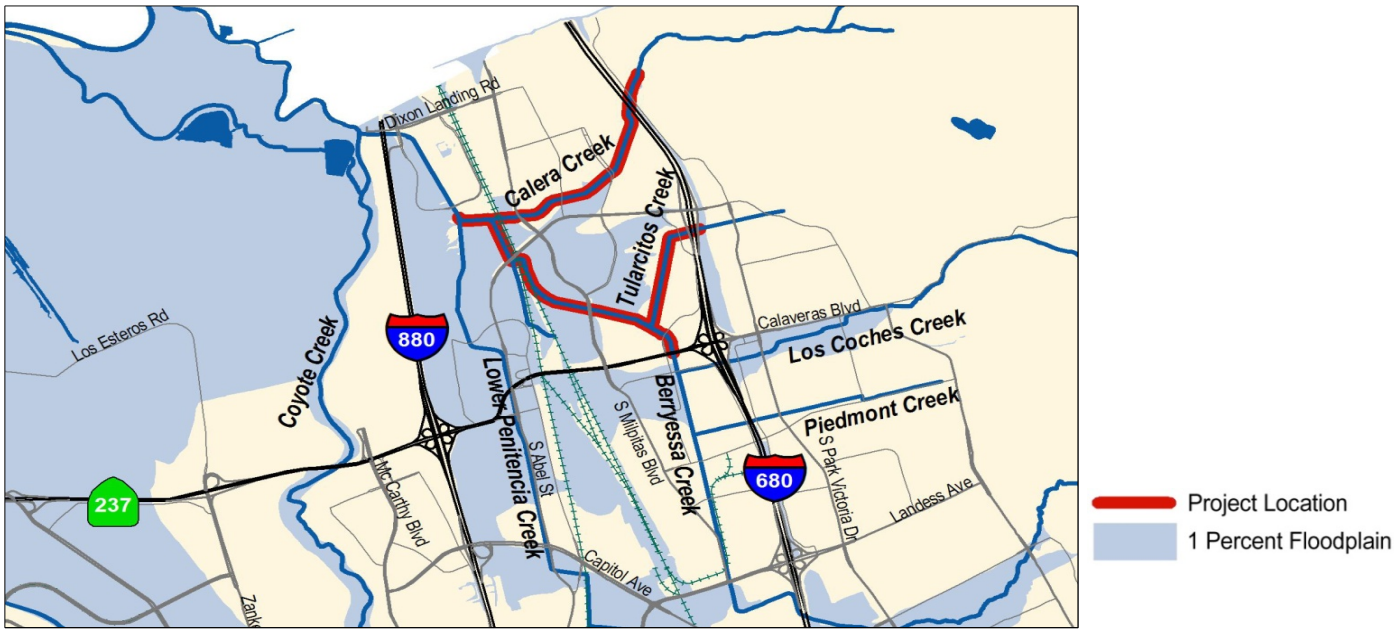
Berryessa Creek upstream of the confluence with Lower Penitencia Creek

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately 3 miles of Berryessa Creek and its tributaries, from the confluence with Lower Penitencia Creek to Calaveras Boulevard (Phase 1 and 2) and the lower reaches of both Calera and Tularcitos Creeks (Phase 3), to accomplish the following objectives:

- Provide one-percent flood protection to 1,800 homes, businesses, and public buildings in the surrounding area.
- Improve the structural integrity of the levees.
- Improve maintenance access and safety for District staff.
- Identify opportunities to integrate recreation inputs consistent with the City of Milpitas' Trail Master Plan.
- Obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency (FEMA).
- Incorporate the District's Clean, Safe Creeks and Natural Flood Protection (NFP) Program Objectives.

PROJECT LOCATION

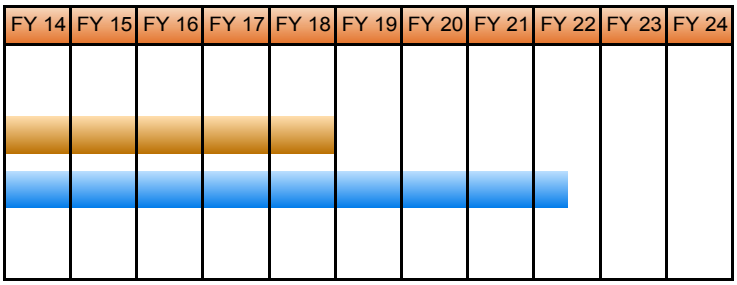


SCHEDULE & STATUS

March 2001 to December 2021

Planning phase is complete. Construction includes three phases and three years of plant establishment monitoring.

Phase	Cost
Plan	7,976
Design	6,677
Construct	66,220
Closeout	49
	80,922



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard	31,693	12,668	27,812	8,146	569	13	10	50	80,961
with inflation	31,693	12,668	27,812	8,605	640	15	12	63	81,508

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard	39,415	4,946	0	27,812	8,605	640	15	12	63	81,508

Adjusted Budget includes adopted budget plus a planned budget adjustment of $4,482,000.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	66,508
Department of Water Resources (Prop 1E)	15,000
Total	**81,508**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase annual operating costs by approximately $100,000 per year. Operating costs will increase with completion of construction of each of 3 phases: beginning with a $50,000 increase in FY 2014 (with completion of Phase 1), increasing to $65,000 in FY 2016 (Phase 2), and finally increasing to $100,000 in FY 2018 (Phase 3). These costs will be for increased maintenance activities such as sediment removal, vegetation management, levee maintenance, graffiti abatement, and trash & debris cleanup.

USEFUL LIFE: 30+ Years

Project	**Coyote Creek, Montague Expressway to Interstate 280**
Program	Flood Protection – Coyote Watershed
Priority No.	59
Project No.	26174043
District Contact	Melanie Richardson mrichardson@valleywater.org

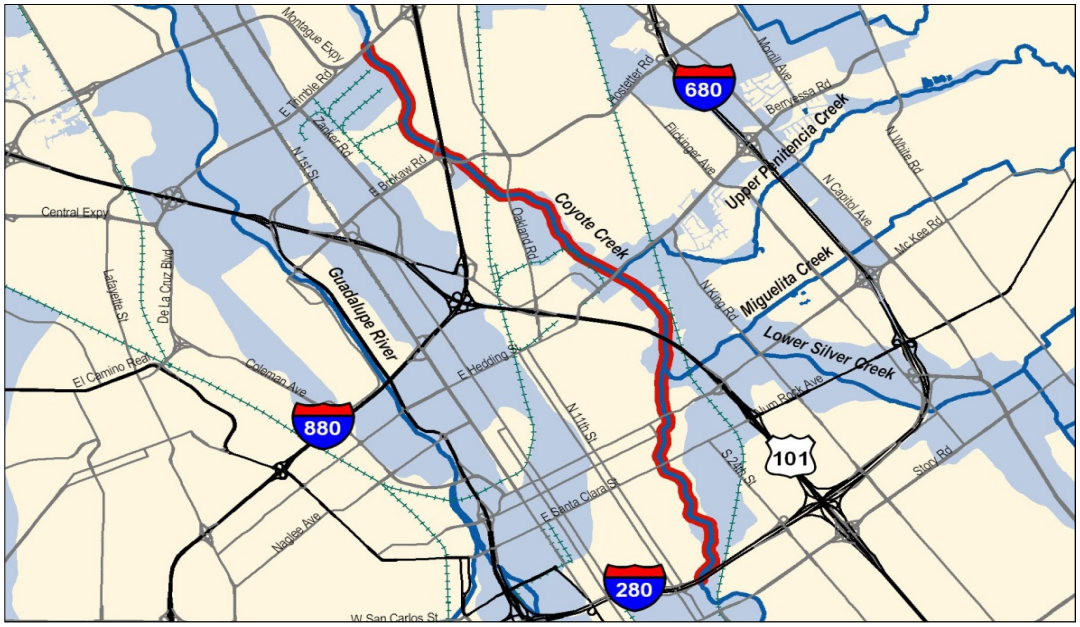
Flooding from Coyote Creek on 17th Street near downtown San Jose in January 1997

PROJECT DESCRIPTION

This project plans, designs, and partially constructs improvements along approximately 6.1 miles of Coyote Creek, from Montague Expressway to Interstate 280, to accomplish the following objectives:

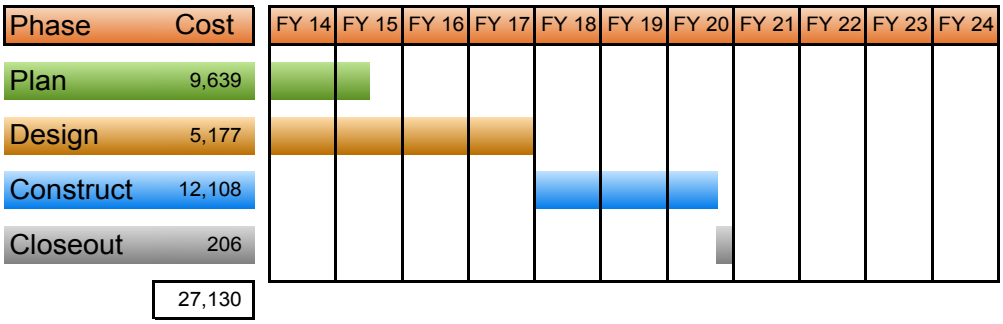
- Provide flood protection to the surrounding area.
- Mitigate for project impacts to stream habitat and fisheries.
- Develop a continuous maintenance road that is consistent and supportive of the city's Coyote Creek Trail master plans.
- Identify stream habitat enhancement and/or restoration opportunities.
- Identify opportunities to improve water quality within the project limits.
- Identify opportunities to provide for public recreation and access.
- Create a self-sustaining system within the project limits, to reduce long-term operations and maintenance costs.
- Obtain community support.

PROJECT LOCATION



SCHEDULE & STATUS

September 2002 to June 2020



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26174043-Coyote Creek, Montague Expressway to Interstate 280	10,238	646	2,272	820	890	10,890	890	500	27,146
with inflation	10,238	646	2,272	887	1,001	11,865	1,083	633	28,625

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26174043-Coyote Creek, Montague Expressway to Interstate 280	15,996	2,990	8,102	0	0	0	7,924	1,083	633	28,625

Adjusted Budget includes adopted budget plus approved budget adjustments

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	28,625
Other Funding Source	0
Total	**28,625**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $100,000 per year, beginning in FY 2021. Currently the District has limited and sporadic property rights within the project limits along the creek, and ongoing maintenance costs are relatively small. Project implementation may include acquisition of continuous right of way for construction and future operations and maintenance.

USEFUL LIFE: 30+ Years

Project	**Improvements at Cunningham Park**
Program	Flood Protection – Coyote Watershed
Priority No.	54
Project No.	40264011
District Contact	Melanie Richardson mrichardson@valleywater.org

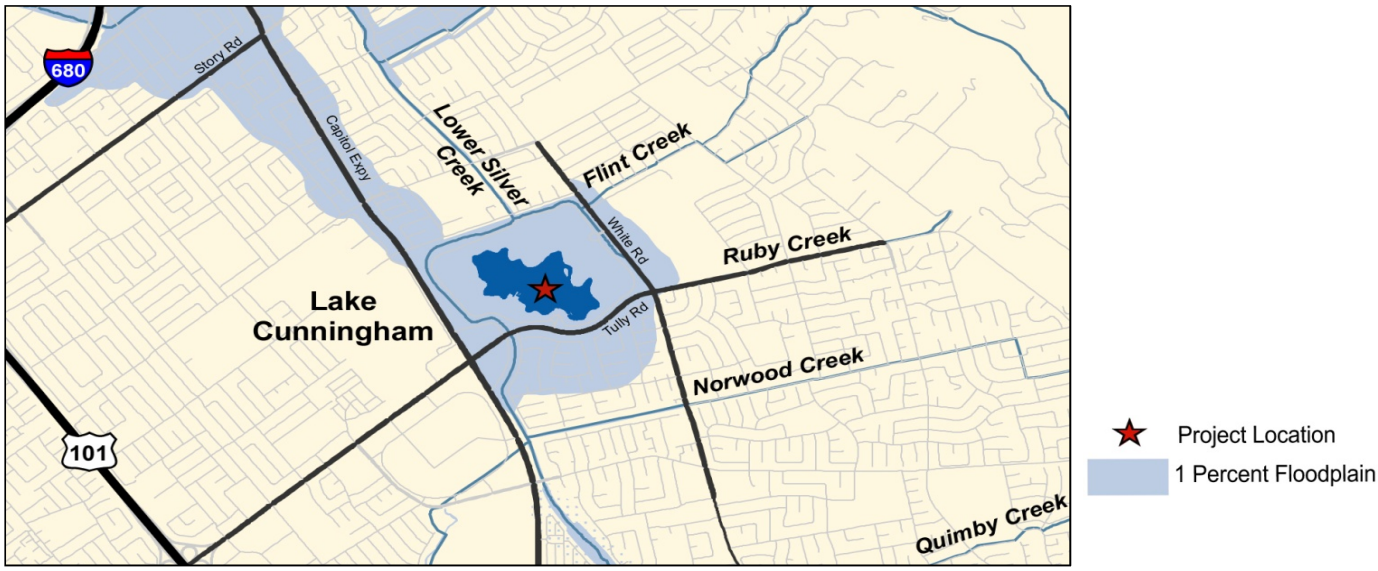
Flooding from Lower Silver Creek in February 1969 at the future site of Lake Cunningham Regional Park

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Lake Cunningham Regional Park in the city of San Jose between Cunningham Avenue and Tully Road to ensure it functions as a flood detention facility and accomplishes the following objectives:

- Ensure Lake Cunningham Regional Park operates as a flood detention facility to provide one-percent flood protection to the area downstream of Cunningham Avenue in the Lower Silver Creek Watershed.
- Identify feasible opportunities for environmental enhancements.
- Identify feasible opportunities for recreational enhancements.
- Obtain a Letter of Map Revision from Federal Emergency Management Agency (FEMA) for the area downstream of Cunningham Avenue in the Lower Silver Creek Watershed to remove at least 3,800 parcels from the one-percent floodplain.

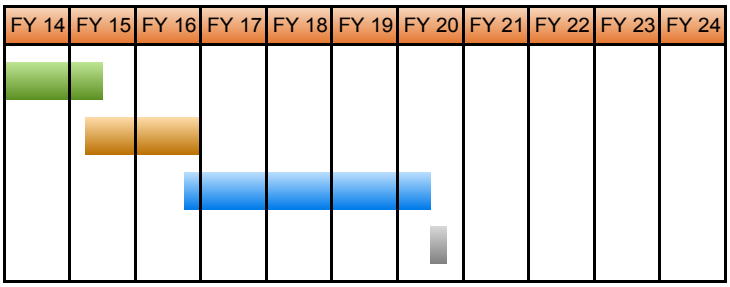
PROJECT LOCATION



SCHEDULE & STATUS

August 1999 to February 2020.

Phase	Cost
Plan	1,646
Design	932
Construct	4,090
Closeout	10
	6,678



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
40264011-Improvements at Cunningham Park	538	550	3,370	350	1,285	300	250	35	6,678
with inflation	538	550	3,370	379	1,386	351	304	44	6,922

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
40264011-Improvements at Cunningham Park	885	1,832	1,629	1,741	379	1,386	351	304	44	6,922

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	6,922
Other Funding Source	0
Total	**6,922**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operations costs. The project is within District jurisdiction and it is designed to minimize maintenance activities such as sediment removal, so as to have minimal or no additional impact to the operating budget.

USEFUL LIFE: 30+ Years

Project	**Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks**
Program	Flood Protection – Coyote Watershed
Priority No.	54
Project No.	40334005
District Contact	Melanie Richardson mrichardson@valleywater.org

Lower Penitencia Creek, looking downstream from Milmont Drive

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately 1 mile of Lower Penitencia Creek from the downstream confluence with Coyote Creek to the upstream confluence with Lower Berryessa Creek, to accomplish the following objectives:

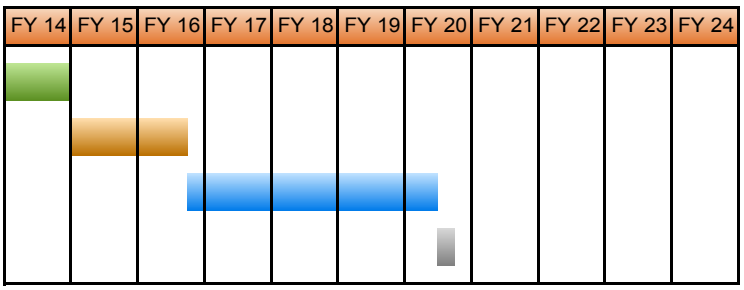
- Provide one-percent flood protection along the creek.
- Identify opportunities for environmental enhancement, such as stream restoration, trails, parks, and open space for District Board consideration.
- Minimize impacts to environmental resources and provide opportunities to protect and enhance existing riparian habitat.

PROJECT LOCATION

SCHEDULE & STATUS

October 2010 to February 2020

Phase	Cost
Plan	1,511
Design	1,212
Construct	3,563
Closeout	16
	6,302



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
40334005-Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks	478	2,063	2,266	1,630	40	20	0	0	6,497
with inflation	478	2,063	2,266	1,698	45	23	0	0	6,573

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
40334005-Lower Penitencia Creek Improvements, Berryessa to Coyote Creeks	1,128	1,784	371	1,895	1,698	45	23	0	0	6,573

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	1,573
Department of Water Resources (Prop 1E)	5,000
Total	**6,573**

OPERATING COST IMPACTS

Operating cost impacts will be provided after completion of the planning phase.

USEFUL LIFE: 50 Years

Project	**Lower Silver Creek, I-680 to Cunningham Avenue (R4-6)**
Program	Flood Protection – Coyote Watershed
Priority No.	56
Project No.	40264007s
District Contact	Chris Elias celias@valleywater.org

Lower Silver Creek looking upstream from Capital Expressway

PROJECT DESCRIPTION

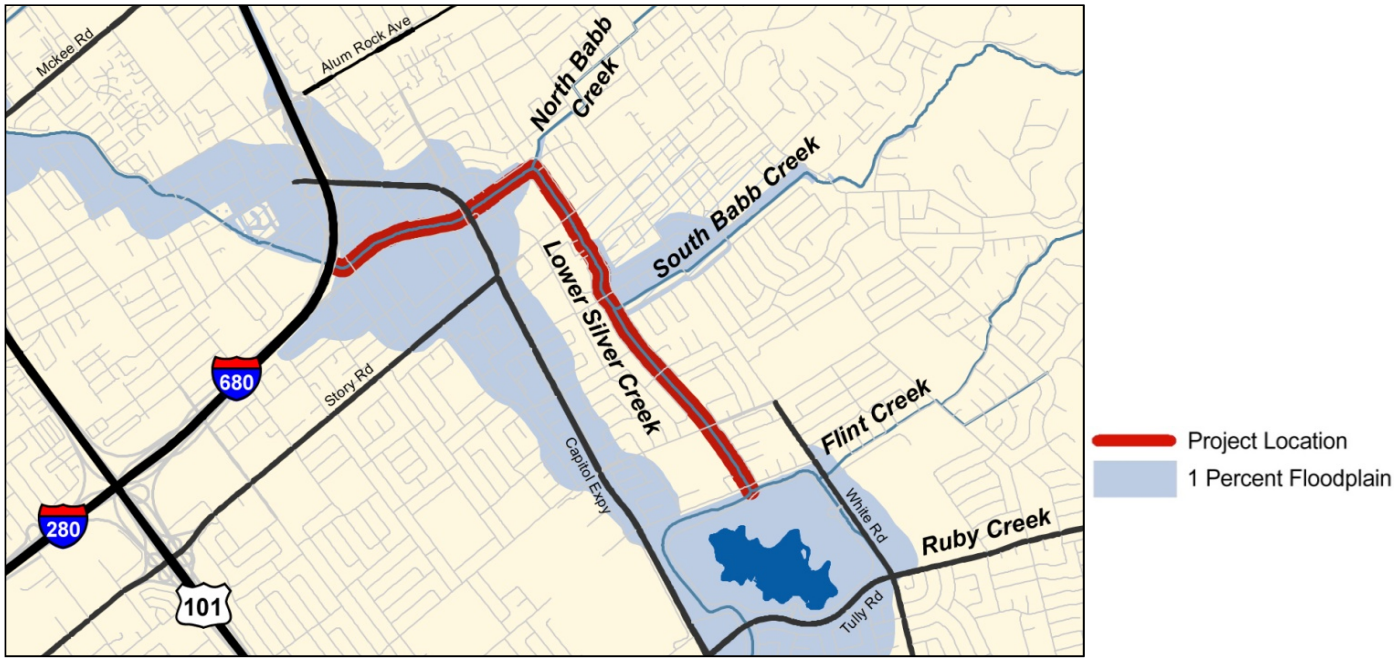
This project is part of a flood control project that partners with the Natural Resource Conservation Service (NRCS) to plan, design and construct improvements along approximately 2.3 miles of Lower Silver Creek, from Interstate 680 to Lake Cunningham. This project includes elements that are eligible for reimbursement from the state and federal governments to accomplish the following objectives:

- Increase flood protection to 3,800 parcels in the surrounding area.
- Allow for on-site mitigation of project impacts, and in some cases enhancement of existing habitat values by increased wetlands and riparian habitat.
- Improve vehicle and pedestrian bridges crossing Lower Silver Creek.
- Develop the footprint for a future trail project between Capitol Avenue-Frontage Road and Jackson Avenue that ensures pedestrians and bicyclists may travel beneath the Dobern Pedestrian Bridge.

This project is accounted for in the following job numbers:

- 40264007–Lower Silver Creek, I-680 to N. Babb Rd. (Reach 4 Planning) - Completed
- 40264008–Lower Silver Creek, I-680 to Cunningham Rd. (Reaches 4-6)
- 40264012–Lower Silver Creek (Reaches 4-6) Reimbursable

PROJECT LOCATION

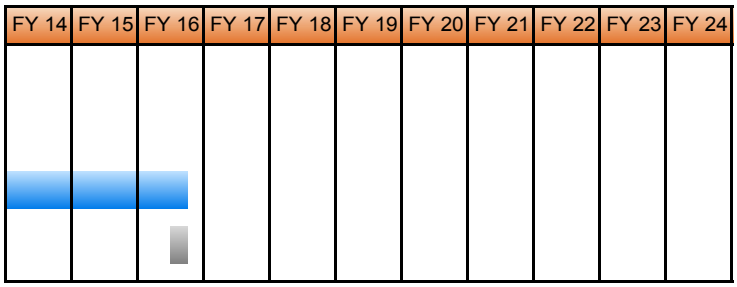


SCHEDULE & STATUS

August 1991 to April 2016

Planning and Design phases are complete

Phase	Cost
Plan	6,359
Design	9,703
Construct	69,025
Closeout	51
	85,138



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
40264007-Lower Silver Creek, Reach 4 Planning	2,371	0	0	0	0	0	0	0	2,371
with inflation	2,371	0	0	0	0	0	0	0	2,371
40264008-Lower Silver Ck, Nonreimbursable (R4-6)	69,756	11,741	4,824	138	0	0	0	0	86,459
with inflation	69,756	11,741	4,824	149	0	0	0	0	86,470
40264012-Lower Silver Creek, LERRDs (R4-6)	1,967	401	267	75	0	0	0	0	2,710
with inflation	1,967	401	267	81	0	0	0	0	2,716
TOTAL	74,094	12,142	5,091	213	0	0	0	0	91,540
with inflation	74,094	12,142	5,091	230	0	0	0	0	91,557

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
40264007-Lower Silver Creek, Reach 4 Planning	2,371	0	0	0	0	0	0	0	0	2,371
40264008-Lower Silver Ck, Nonreimbursable (R4-6)	81,541	50	94	4,730	149	0	0	0	0	86,470
40264012-Lower Silver Creek, LERRDs (R4-6)	2,858	54	544	0	0	0	0	0	0	2,912
TOTAL	86,770	104	638	4,730	149	0	0	0	0	91,753

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures by approximately $196,000. Excess funds will be returned to fund reserves at the close of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	38,448
State of California	7,629
Natural Resource Conservation Service - ARRA	20,676
California Department of Water Resources	25,000
Total	**91,753**

OPERATING COST IMPACTS

Operating budget impacts from construction of this project are expected to be insignificant. Repair of several erosion sites will reduce maintenance needs, but will not affect overall sediment removal or vegetation control practices.

USEFUL LIFE: 50+ Years

Project	**Upper Penitencia Creek, Coyote Creek to Dorel Drive**
Program	Flood Protection – Coyote Watershed
Priority No.	58
Project No.	40324003s
District Contact	Melanie Richardson mrichardson@valleywater.org

Flooding at King Road on Upper Penitencia Creek

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements along approximately 4.2 miles of Upper Penitencia Creek, from the confluence with Coyote Creek to Dorel Drive, to accomplish the following objectives.

- Provide one-percent flood protection to more than 5,000 homes, businesses, and public buildings.
- Mitigate for project impacts.
- Improve stream habitat values and fisheries potential.
- Reduce sedimentation and maintenance requirements.
- Identify opportunities to integrate recreation improvements consistent with the City of San Jose's Master Plans for Penitencia Creek Park Chain Reach 1 and Reach 2, the County's Penitencia Creek Master Plan, and Santa Clara Countywide Trails Master Plan.
- Obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency (FEMA).
- Incorporate the District's Clean, Safe Creeks and Natural Flood Protection (NFP) Program Objectives.
- Coordinate with local agencies to ensure that planned flood control improvements do not conflict with trail construction by the City of San Jose that is scheduled to begin in the latter part of 2013.

This project is accounted for in the following job numbers:

- 40324003—District coordination with Corps for Corps' work
- 40324005—District's Lands, Easements, Rights of Way, Relocation, and Disposal (LERRDs)
- 26324001—Safe Clean Water Program coordination with Corps for Corps' work

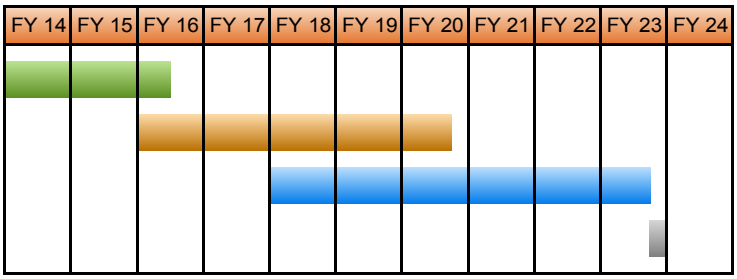
PROJECT LOCATION

Project Location
1 Percent Floodplain

SCHEDULE & STATUS

March 1996 to June 2023

Phase	Cost
Plan	8,762
Design	25,121
Construct	26,554
Closeout	20
	60,457



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures								Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**		
40324003-Upper Penitencia Ck, Coyote Ck to Dorel Dr, Corps	8,438	198	323	0	0	0	0	0		8,959
with inflation	8,438	198	323	0	0	0	0	0		8,959
40324005-Upper Penitencia Ck, Coyote Ck to Dorel Dr, LERRDs	2,027	1,580	1,207	2,600	815	0	0	0		8,229
with inflation	2,027	1,580	1,207	2,812	917	0	0	0		8,543
26324001-Upper Penitencia Ck, Coyote Ck to Dorel Dr	0	0	0	7,761	2,118	2,933	2,933	28,474		44,219
with inflation	0	0	0	8,394	2,382	3,431	3,568	33,524		51,300
TOTAL	**10,465**	**1,778**	**1,530**	**10,361**	**2,933**	**2,933**	**2,933**	**28,474**		**61,407**
with inflation	**10,465**	**1,778**	**1,530**	**11,206**	**3,299**	**3,431**	**3,568**	**33,524**		**68,802**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
40324003-Upper Penitencia Ck, Coyote Ck to Dorel Dr, Corps	8,970	0	334	0	0	0	0	0	0	8,970
40324005-Upper Penitencia Ck, Coyote Ck to Dorel Dr, LERRDs	8,464	80	4,937	0	0	0	0	0	0	8,544
26324001-Upper Penitencia Ck, Coyote Ck to Dorel Dr	0	0	0	0	8,394	2,382	3,431	3,568	33,524	51,300
TOTAL	**17,434**	**80**	**5,271**	**0**	**8,394**	**2,382**	**3,431**	**3,568**	**33,524**	**68,814**

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved Funding exceeds planned expenditures by approximately $12,000. Excess funding will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	17,514
SCVWD Safe, Clean Water Fund	51,300
Total	**68,814**

Total

OPERATING COST IMPACTS

Operating cost impacts will be provided after completion of the planning phase

USEFUL LIFE: Not Available

Project	**Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River**
Program	Flood Protection – Uvas/Llagas Watershed
Priority No.	81
Project No.	50284010
District Contact	Melanie Richardson mrichardson@valleywater.org

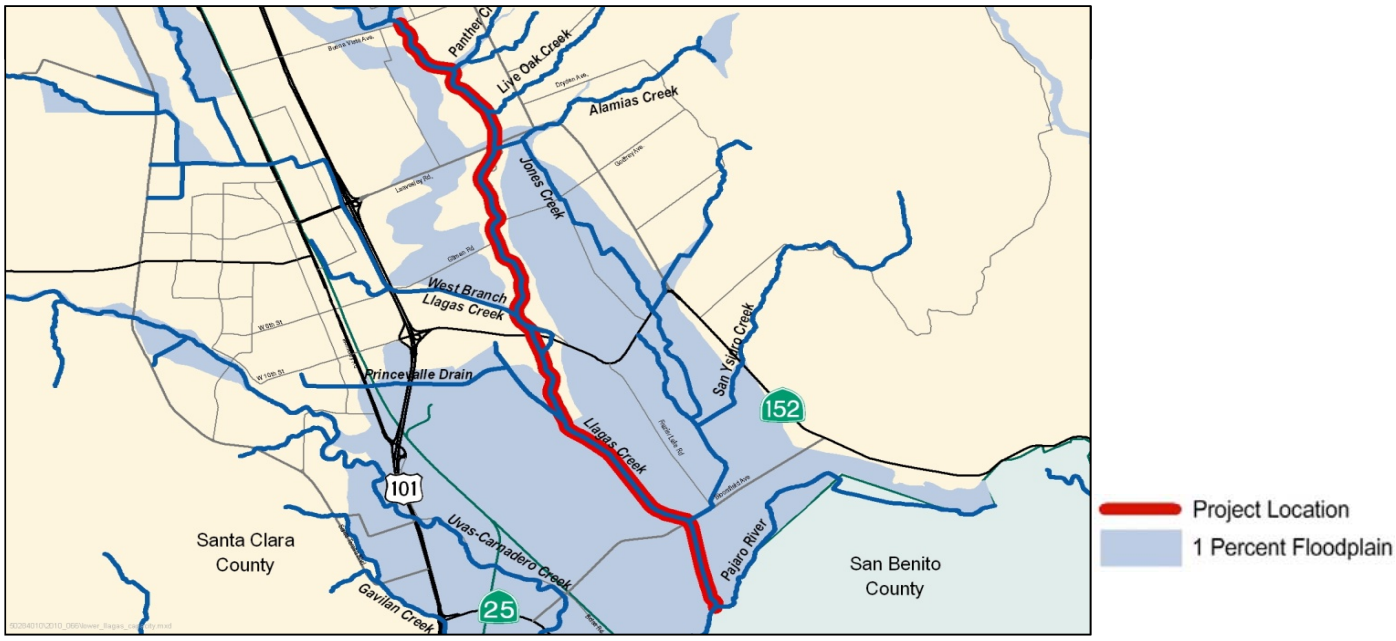
Lower Llagas Creek near Pajaro River

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements on approximately 7.15 miles of Lower Llagas Creek, from Buena Vista Avenue to Pajaro River, to accomplish the following objectives:

- Evaluate the current flood risk in the area surrounding the project versus the design level flood risk.
- Develop options to provide flood protection for Lower Llagas Creek Reaches 2 and 3 in accordance with Federal Emergency Management Agency (FEMA) criteria where applicable.
- Identify feasible opportunities for environmental restoration and corridor preservation.

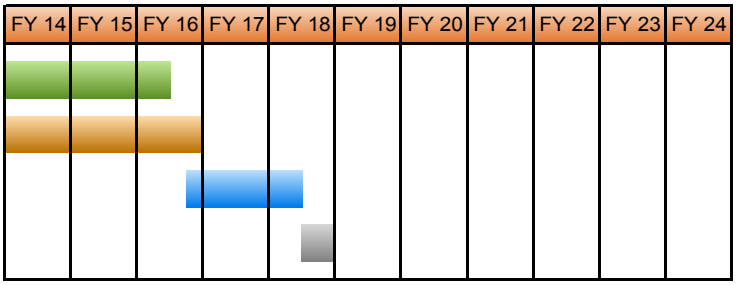
PROJECT LOCATION



SCHEDULE & STATUS

July 2008 to June 2018

Phase	Cost
Plan	3,351
Design	2,114
Construct	2,050
Closeout	50
	7,565



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	3,251	956	1,266	1,825	275	0	0	0	7,573
with inflation	3,251	956	1,266	1,912	309	0	0	0	7,694

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	4,695	6,931	7,419	0	0	0	0	0	0	11,626

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved budget exceeds planned expenditures by approximately $3,932,000. Excess funds will be returned to fund reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	11,626
Other Funding Source	0
Total	**11,626**

OPERATING COST IMPACTS

Operating costs will be determined during the planning phase.

USEFUL LIFE: 30+ Years

Project	**Llagas Creek–Upper, Buena Vista Avenue to Llagas Road**
Program	Flood Protection – Uvas/Llagas Watershed
Priority No.	66
Project No.	26174051s
District Contact	Liang Lee Llee@valleywater.org

Llagas Creek floods at Watsonville Road and the surrounding area

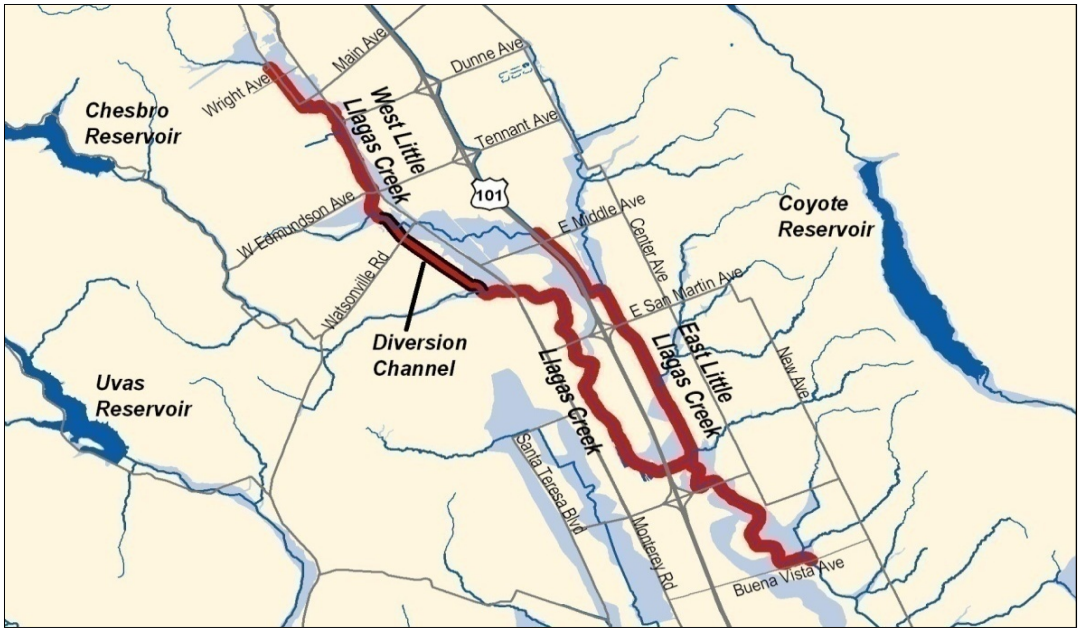
PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements on approximately 13.6 miles of Upper Llagas Creek, from Buena Vista Avenue to Llagas Road, to provide an increased level of flood protection with adequate freeboard. SCVWD shall coordinate with the County of Santa Clara and the City of Morgan Hill on public access and recreational trail opportunities within Reaches 7 and 8 of this project.

This project is accounted for in the following job numbers:

- 26174051 Reaches 4-8 & 14 - Reimbursable - Lands, Easements, Rights of Way, Relocation, & Disposal (LERRDs)
- 26174052 Reaches 4-8 & 14 - Coordination with the Corps
- 26174053 - Technical Studies (completed)
- 26174054 - Design
- 50C40335 - Construction, Reach 5, 6, & 7b

PROJECT LOCATION



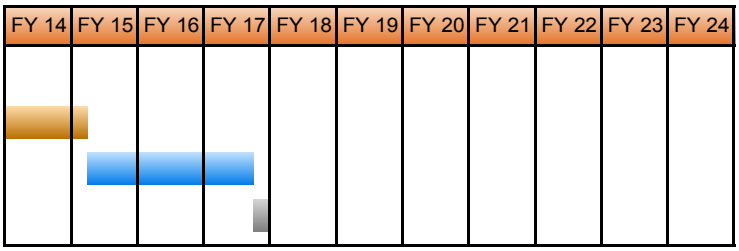
Project Location
1 Percent Floodplain

SCHEDULE & STATUS

August 2000 to June 2017

Project schedule may vary considerably and is dependent upon the Corps and Congress.

Phase	Cost
Plan	6,067
Design	55,539
Construct	92,932
Closeout	166
	154,704



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26174051-Llagas Ck—Upper, LERRDs	7,182	34,076	411	0	0	0	0	0	41,669
with inflation	7,182	34,076	411	0	0	0	0	0	41,669
26174052-Llagas Ck—Upper, Corps Coordination	2,090	1,560	15,407	49,424	5,200	0	0	0	73,681
with inflation	2,090	1,560	15,407	51,434	5,531	0	0	0	76,022
26174053-Llagas Ck—Upper, Technical Studies	1,446	0	0	0	0	0	0	0	1,446
with inflation	1,446	0	0	0	0	0	0	0	1,446
26174054-Llagas Ck—Upper, Design	14,981	2,790	936	0	0	0	0	0	18,707
with inflation	14,981	2,790	936	0	0	0	0	0	18,707
50C40335-Llagas Ck—Upper, Construction Rch 5, 6, & 7b	0	0	0	0	23,000	0	0	0	23,000
with inflation	0	0	0	0	24,408	0	0	0	24,408
TOTAL	**25,699**	**38,426**	**16,754**	**49,424**	**28,200**	**0**	**0**	**0**	**158,503**
with inflation	**25,699**	**38,426**	**16,754**	**51,434**	**29,939**	**0**	**0**	**0**	**162,252**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26174051-Llagas Ck—Upper, LERRDs	9,057	32,275	74	337	0	0	0	0	0	41,669
26174052-Llagas Ck—Upper, Corps Coordination	2,572	1,110	32	15,375	51,434	5,531	0	0	0	76,022
26174053-Llagas Ck—Upper, Technical Studies	1,446	0	0	0	0	0	0	0	0	1,446
26174054-Llagas Ck—Upper, Design	15,675	2,096	0	936	0	0	0	0	0	18,707
50C40335-Llagas Ck—Upper, Construction Rch 5, 6, & 7b	0	0	0	0	0	24,408	0	0	0	24,408
TOTAL	**28,750**	**35,481**	**106**	**16,648**	**51,434**	**29,939**	**0**	**0**	**0**	**162,252**

Adjusted Budget includes adopted budget plus a planned budget adjustment for $941,000.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	17,900
SCVWD Safe Clean Water Program Fund	39,000
Watershed Stream Stewardship Fund	64,243
State of California	38,109
City of Morgan Hill	3,000
Total	**162,252**
U.S. Army Corps of Engineers - In-kind Services	65,000

OPERATING COST IMPACTS

Operating cost impacts will be provided after completion of the design phase.

USEFUL LIFE: 30+ Years

Project	**San Francisco Bay Shoreline**
Program	Flood Protection – Multiple Watersheds
Priority No.	32
Project No.	00044026s
District Contact	Melanie Richardson mrichardson@valleywater.org

Typical natural tidal marshland in San Francisco Bay near the Shoreline project area

PROJECT DESCRIPTION

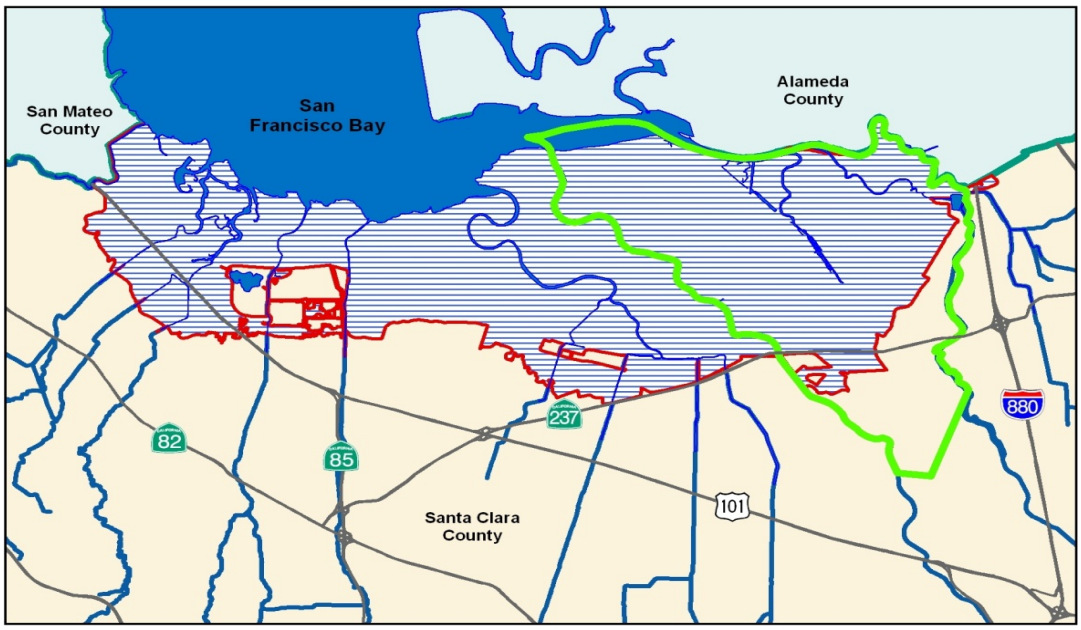
This project partners with the California Costal Conservancy, U.S. Army Corps of Engineers (Corps), and key stakeholders to conduct an integrated, multi-objective project along the San Francisco Bay Shoreline. The planning efforts for the North San Jose area, known as Economic Impact Area 11 (EIA 11), will be funded from project number 00044026. Safe, Clean Water funds will provide $15 million toward the District's cost share of the design and partial construction efforts for EIA 11 and $5 million toward the District's cost share of the planning efforts for the remaining EIAs to accomplish the following objectives:

- Provide integrated fluvial and one-percent tidal flood protection.
- Provide protection for future sea level rise projections.
- Restore and/or enhance tidal marsh and related habitats.
- Provide recreational and public access opportunities throughout the tidal floodplain of Santa Clara County.
- Pursue continued federal funding.
- Obtain a Letter of Map Revision from the Federal Emergency Management Agency at completion of the Construction Phase.
- Coordinate closely with the South Bay Salt Pond Restoration Project, City of San Jose, U.S. Fish and Wildlife Services, the community and key stakeholders.

This project is accounted for in the following job numbers:

- 00044026—San Francisco Bay Shoreline
- 62044042—Shoreline, Early Implementation (Feasibility)
- 26444001—Shoreline, EIA 11 Design & Partial Constr.
- 26444002—Shoreline, Other EIAs Planning

PROJECT LOCATION



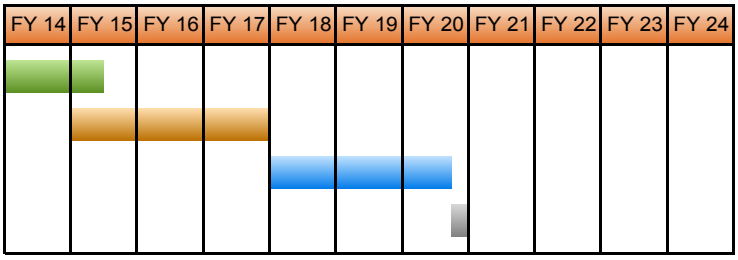
EIA 11

Project Area

SCHEDULE & STATUS

July 2003 to June 2020

Phase	Cost
Plan	12,764
Design	8,446
Construct	16,000
Closeout	-
	37,210



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
00044026-San Francisco Bay Shoreline	10,925	936	1,154	0	0	0	0	0	13,015
with inflation	10,925	936	1,154	0	0	0	0	0	13,015
62044042-Shoreline Early Implementation	359	0	0	0	0	0	0	0	359
with inflation	359	0	0	0	0	0	0	0	359
26444001-EIA 11 Design & Part Construction	0	0	6,239	1,597	4,000	4,000	4,000	4,000	23,836
with inflation	0	0	6,239	1,727	4,270	4,365	4,461	4,560	25,623
26444002-Other EIAs Planning	0	600	233	2,982	1,630	0	0	0	5,445
with inflation	0	600	233	3,225	1,834	0	0	0	5,892
TOTAL	**11,284**	**1,536**	**8,178**	**4,579**	**5,630**	**4,000**	**4,000**	**4,000**	**42,655**
with inflation	**11,284**	**1,536**	**7,626**	**4,953**	**6,104**	**4,365**	**4,461**	**4,560**	**44,889**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
00044026-San Francisco Bay Shoreline	11,662	337	138	1,016	0	0	0	0	0	13,015
62044042-Shoreline Early Implementation	359	0	0	0	0	0	0	0	0	359
26444001-EIA 11 Design & Part Construction	0	0	0	6,239	1,727	4,270	4,365	4,461	4,560	25,623
26444002-Other EIAs Planning	0	600	0	233	3,225	1,834	0	0	0	5,892
TOTAL	**12,021**	**937**	**138**	**7,488**	**4,953**	**6,104**	**4,365**	**4,461**	**4,560**	**44,889**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	10,943
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund (Environmental Enhancement Grant)	2,011
SCVWD Safe, Clean Water and Natural Flood Protection Fund	31,515
California Department of Water Resources (Pending)	420
Total	**44,889**
Federal Partners, South Bay Salt Ponds (SBSP)	48,470
State, SBSP	14,720
Foundations, Packard-Hewlett-Goldman-Moore, SBSP	17,060
Coastal Conservancy, Shoreline	2,010
Federal, Corps of Engineers, Shoreline	8,990
Total Partnership Funding for In-kind Services	**91,250**

OPERATING COST IMPACTS

Operating costs will be determined during the planning phase.

USEFUL LIFE: Not Available

Project	**Small Capital Improvements - Watersheds**
Program	Flood Protection - Multiple Watersheds
Priority No.	40
Project No.	62084001
District Contact	Melanie Richardson mrichardson@valleywater.org

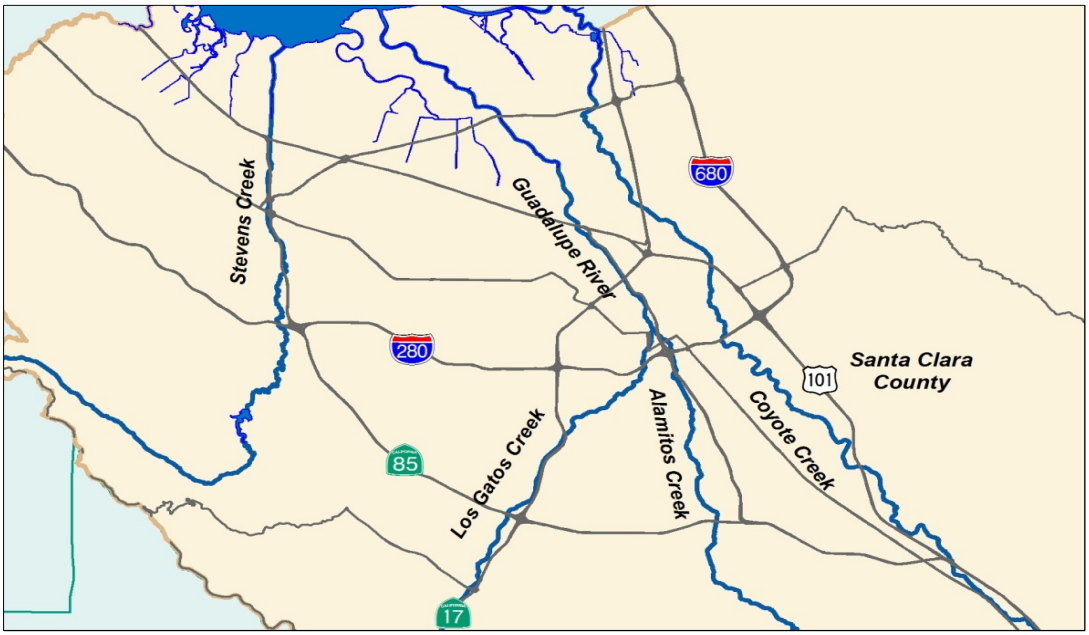
View of the Calabazas Creek Outfall from the top of the bank

PROJECT DESCRIPTION

This project plans, designs, and constructs numerous small capital projects to address the following issues:

- Bank erosion repair.
- Geomorphic channel restoration with bed and bank repair.
- Outfall restoration and repair.
- Sediment removal and fish ladder and blockage repair.
- Fish ladder modifications and repairs.

PROJECT LOCATION



SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	-
Design	-
Construct	3,314
Closeout	-
	3,314

FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
62084001-Small Capital Improvements - Watersheds	0	0	700	673	660	647	634	0	3,314
with inflation	0	0	700	700	700	700	700	0	3,500

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
62084001-Small Capital Improvements - Watersheds	0	0	0	700	700	700	700	700	0	3,500

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	3,500
Other Funding Sources	0
Total	**3,500**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: Not Available

Water Resources Stewardship Capital Improvements

WATER RESOURCES STEWARDSHIP OVERVIEW

The District plans, designs and constructs various capital projects to meet the Board's Ends Policy E-4 "There is water resources stewardship to protect and enhance watersheds and natural resources and improve the quality of life in Santa Clara County." These projects may fulfill environmental enhancement, mitigation or stewardship goals and priorities.

Environmental Commitment Projects

Beginning in FY 2011-12 a fourth sub-category was added to Water Resources Stewardship to clarify the differences between regulatory-driven and optional environmental enhancements. The new sub-category, Environmental Commitment, includes projects that are implemented to satisfy agreements made with regulatory agencies that improve the watershed environment. In the future, the Environmental commitment sub-category will included some or all of the projects set forth in the Valley Habitat Conservation Plan (Valley HCP) or Three Creeks HCP, both still under development.

Environmental Enhancement Projects

Environmental Enhancement projects are constructed at the direction of the Board either to meet the Safe, Clean Water and Natural Flood Protection program (SCW) obligations or to meet other Board priorities.

The District's Safe, Clean Water Program, approved by the voters of Santa Clara County in 2012, committed funding for environmental enhancement activities that create or restore tidal or riparian habitat. A selection process will be conducted to allocate the SCW funding to the enhancement opportunities that meet Board-defined characteristics.

Major Capital Improvements Identified in the CIP

- South Bay Salt Ponds Restoration
- Lake Almaden, Guadalupe River, Los Alamitos Creek Planning and Design

Mitigation Projects

The District manages many mitigation sites and continues to plan, design, and construct new mitigation sites to fulfill CEQA and regulatory permit requirements for both capital projects and operations activities. Mitigation requirements for capital projects may be incorporated into the project scope or accomplished as a separate project.

Major Capital Improvements Identified in the CIP

- Dam Maintenance Mitigation
- SMP Mitigation, Stream and Watershed Land Preservation

Stewardship Projects

Stewardship projects are implemented to promote water quality awareness; reduce pollutants in streams; support additional trails, parks and open space; support creek side recreation; and reduce green house gas. Stewardship projects are implemented at the discretion of the Board when reasonable and appropriate. These projects are often accomplished in partnership with or support of other agencies.

Stewardship projects may be constructed to fulfill the SCW obligations or to meet other Board priorities. A selection process will be conducted to allocate SCW funding to the Stewardship projects that meet the SCW requirements.

Water Resources Stewardship Capital Improvements

Major Capital Improvements Identified in the CIP

- Alviso Slough Restoration
- FAHCE Stevens Creek Fish Passage Enhancement
- SCW Implementation Fund

PRIORITY PROCESS AND FINANCIAL ANALYSIS

Environmental Enhancement and Stewardship projects are implemented at the discretion of the Board. Projects may go through a ranking process to compete for Safe, Clean Water funds or the board may direct that other available revenue be used to implement the proposed projects. The inclusion of these projects in the Fiscal Year 2015-19 CIP has been approved by the Board. The priority criteria used to evaluate these projects are included in Appendix A.

Implementation of Mitigation projects is considered non-discretionary since they are needed to meet California Environmental Quality Act (CEQA) or regulatory permit commitments. Funding for mitigation projects is allocated without a prioritization process.

Financial analysis of the following funding sources for Water Resources Stewardship capital improvements was conducted to determine if there are limitations to funding currently planned capital projects.

- Watershed and Stream Stewardship Fund
- Safe, Clean Water Fund
- Water Utility Enterprise Fund

Funding needs for approved Water Resources Stewardship projects can be met.

Water Resources Stewardship Capital Improvements

The following table is a project funding schedule for water resources stewardship capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2013-14.

Water Resources Stewardship Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
	ENVIRONMENTAL COMMITMENT										
91854002	Jacques Gulch Restoration	5,628	0	230	7	-	-	-	-	-	5,635
	ENVIRONMENTAL ENHANCEMENT										
26044001	Lake Almaden, Guadalupe Rv, Los Alamitos Ck Restoration	815	314	-	696	561	-	-	-	-	2,386
26444003	South Bay Salt Ponds Restoration	-	188	-	329	221	229	1,993	2,098	-	5,058
	MITIGATION										
62184001	SMP Mitigation, Stream and Watershed Land Preservation	8,633	2,495	1,172	3,076	-	-	-	-	-	14,204
	STEWARDSHIP										
30154029s	Alviso Slough	5,942	2,337	3,427	-	8,568	427	468	414	25	18,181
00294001s	FAHCE Stevens Creek Fish Passage Enhancement	850	-	-	-	1,392	2,953	-	-	-	5,195
26C40370	SCW Implementation Fund	-	-	-	-	3,825	3,715	14,235	9,495	31,512	62,782
26C40384	Singleton Road Fish Passage Improvements	-	-	-	339	414	236	2,227	49	104	3,369
	TOTAL	21,868	5,334	4,829	4,447	14,981	7,560	18,923	12,056	31,641	116,810

FY 2013-14 Funds to be reappropriated

The following table shows funding requirements from each funding source for mitigation capital improvements.

Water Resources Stewardship – Funding Sources ($K)

Fund Number	FUND NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
61	Water Utility Enterprise Fund	6,393	-	230	7	1,853	3,282	649	675	8,388	21,246
12	Watershed Stream Stewardship Fund	6,027	2,337	3,427	-	9,307	1,346	1,117	1,089	8,413	29,636
26	Safe, Clean Water and Natural Flood Protection Fund	9,448	2,997	1,172	4,440	3,821	2,932	17,157	10,292	14,841	65,928
	TOTAL	21,868	5,334	4,829	4,447	14,981	7,560	18,923	12,056	31,641	116,810

FY 2013-14 Funds to be reappropriated

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Project	**Jacques Gulch Restoration**
Program	Water Resources Stewardship – Environmental Commitment
Priority No.	85
Project No.	91854002
District Contact	Melanie Richardson mrichardson@valleywater.org

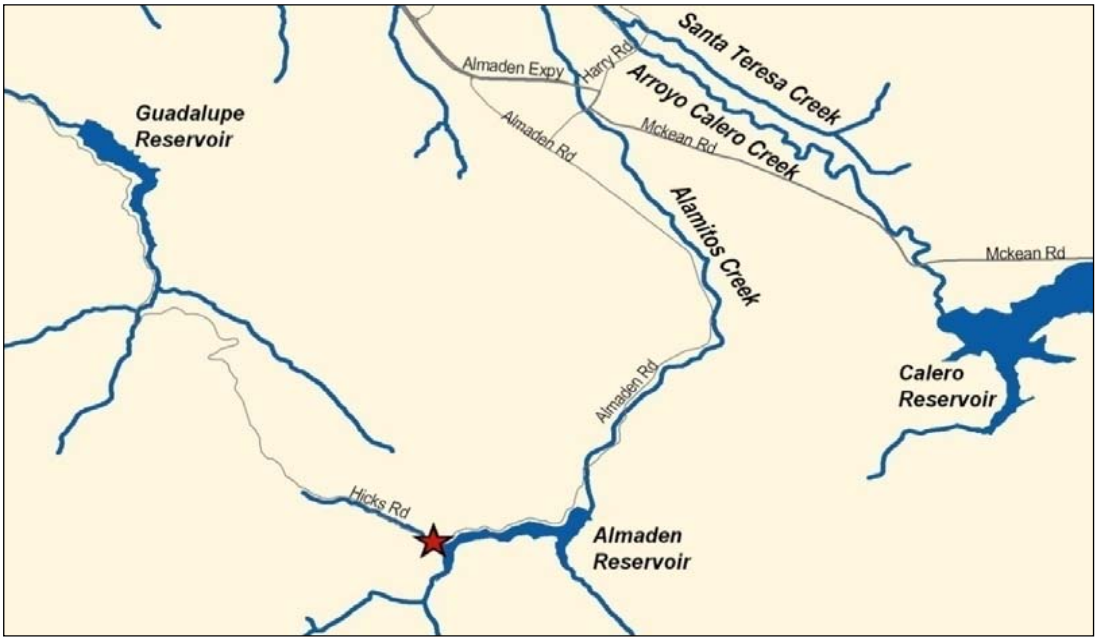
Geotechnical analysis of calcine deposits to determine mercury depth and concentration

PROJECT DESCRIPTION

This project plans, designs and constructs improvements to Jacques Gulch, a tributary to the Almaden Reservoir, to accomplish the following objectives:

- Remove mercury calcine deposits.
- Stabilize the stream banks and restore habitat along Jacques Gulch, consistent with provisions of the Consent Decree.

PROJECT LOCATION



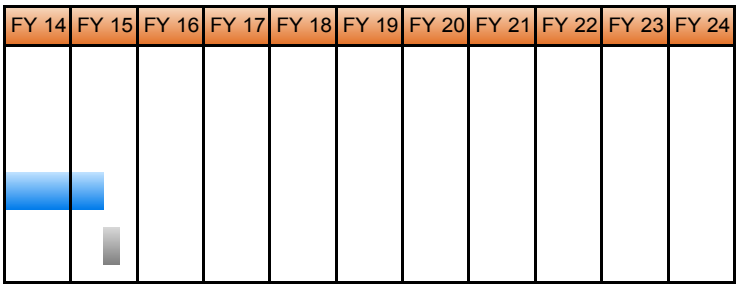
★ Project Location

SCHEDULE & STATUS

July 2003 to March 2015

Planning phase is complete. Design phase is complete. Construction phase includes 5 years of plant establishment monitoring.

Phase	Cost
Plan	1,543
Design	472
Construct	3,254
Closeout	42
	5,311



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91854002-Jacques Gulch Restoration	5,365	33	81	0	0	0	0	0	5,479
with inflation	5,365	33	81	0	0	0	0	0	5,479

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
91854002-Jacques Gulch Restoration	5,628		230	7	0	0	0	0	0	5,635

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures by $156,000. Excess funds will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	5,273
Guadalupe Rubbish Disposal Company	125
County of Santa Clara	237
Total	**5,635**
County of Santa Clara - In-kind Services	4,000

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $5,000 per year, beginning in FY 2016. Increases are related to the anticipated need for annual inspection of the Alamitos Road culvert, and periodic vegetation and/or debris removal upstream and downstream of the culvert.

USEFUL LIFE: 50+ Years

Project	**Lake Almaden, Guadalupe River, Alamitos Creek Restoration**
Program	Water Resources Stewardship – Environmental Enhancement
Priority No.	35
Project No.	26044001
District Contact	Melanie Richardson mrichardson@valleywater.org

Looking southerly at Lake Almaden, which has fish with the highest concentrations of mercury in California in 2010.

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Guadalupe River from Blossom Hill Road to the Guadalupe Creek/Alamitos Creek confluence, and Alamitos Creek from the Guadalupe Creek confluence to Winfield Boulevard, including Lake Almaden, to accomplish the following objectives:

- Address state and federal requirements for protection of endangered species for activities related to water supply operations, dam maintenance program, and certain flood protection activities.
- Comply with regulatory requirements to reduce mercury contamination in fish.
- Restore stream function and incorporate geomorphologic features along portions of Guadalupe River and Alamitos Creek.
- Provide100-year level of flood protection extending from upstream of Blossom Hill Road to downstream of Winfield Boulevard.
- Enhance environmental and recreational features.

This project is funded for the planning and design phase. Funding for construction may be available from Safe, Clean Water, Priority D.

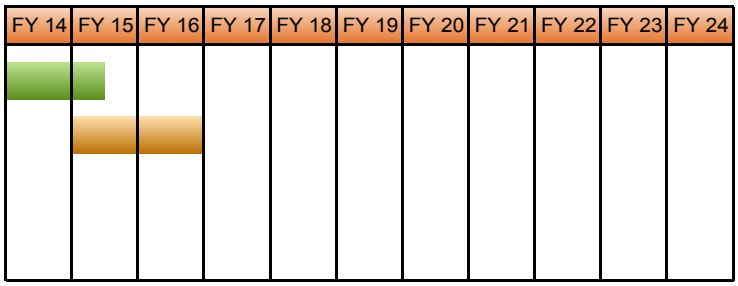
PROJECT LOCATION

SCHEDULE & STATUS

July 2011 to June 2016

Planning Phase and some Design Tasks. Construction is not funded at this time.

Phase	Cost
Plan	1,327
Design	1,016
Construct	1
Closeout	-
	2,344



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26044001-Lake Almaden, Guadalupe River, Alamitos Creek Restoration	457	672	696	519	0	0	0	0	2,344
with inflation	457	672	696	561	0	0	0	0	2,386

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26044001-Lake Almaden, Guadalupe River, Alamitos Creek Restoration	815	314	0	696	561	0	0	0	0	2,386

Adjusted Budget includes adopted budget plus a planned budget adjustment for $314,000.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	800
SCWD Safe Clean Water Fund	1,586
Total	**2,386**

OPERATING COST IMPACTS

Planning Phase Only: No operating cost impacts are expected from the completion of this phase of the project.

USEFUL LIFE: 100 Years

Project	**South Bay Salt Ponds Restoration**
Program	Water Resources Stewardship - Environmental Enhancement
Priority No.	57
Project No.	26444003
District Contact	Liang Lee llee@valleywater.org

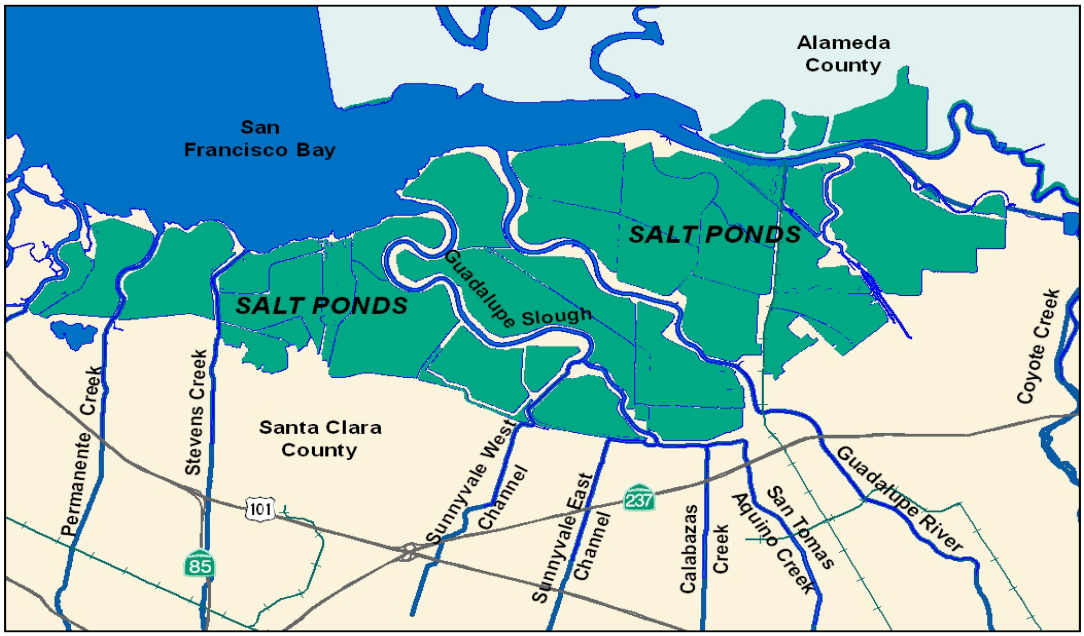
View of one of the salt evaporator facilities near Alviso

PROJECT DESCRIPTION

This project implements a planning study to investigate possible improvements to the South Bay Salt Ponds to accomplish the following objectives:

- Provide for beneficial reuse of dredge material, including materials excavated from the District's Stream Maintenance Program.
- Provide sediment disposal, storage, and reuse for a 5-year period
- Examine restoration opportunities for riparian and wildlife habitat

PROJECT LOCATION



Project Location

SCHEDULE & STATUS

June 2013 to July 2017

Planning Study Only

Phase	Cost
Plan	4,353
Design	-
Construct	-
Closeout	-
	4,353

FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY13	FY14	FY15	FY16	FY17	FY18	FY19	Future	
26444003-South Bay Salt Ponds Restoration	0	188	329	204	204	1,704	1,724	0	4,353
with inflation	0	188	329	221	229	1,993	2,098	0	5,058

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY13	FY14		FY15	FY16	FY17	FY18	FY19	Future	
26444003-South Bay Salt Ponds Restoration	0	188	0	329	221	229	1,993	2,098	0	5,058

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	5,058
Other Funding Sources	0
Total	**5,058**

OPERATING COST IMPACTS

Planning Phase Only: The completion of this phase of the project is not anticipated to increase or decrease annual operating costs.

USEFUL LIFE: N/A

Project	**SMP Mitigation Stream and Watershed Land Preservation**
Program	Water Resources Stewardship – Mitigation
Priority No.	99
Project No.	62184001
District Contact	Melanie Richardson mrichardson@valleywater.org

Creek-side settings such as this will be used for stream and watershed land preservation. Actual locations will differ.

PROJECT DESCRIPTION

This project preserves streams and watershed lands in the Santa Clara Basin and implements appropriate restorations in these lands to accomplish the following objectives:

- Provide 71 acres of Stream Maintenance Program (SMP) mitigation credits through preservation of approximately 720 to 950 acres of streams and watershed lands to provide long-term protection of unique and valuable local stream resources and watersheds, in a largely self-sustaining setting. Approximately 108 acres of the total land preservation will be for protection of riparian and upland habitats that are known to support California red-legged frogs and Western pond turtles.
- Provide approximately 10 acres of SMP mitigation credits through environmental restoration on the lands acquired.
- Seek opportunities to partner with other organizations to accomplish the project objectives.

PROJECT LOCATION

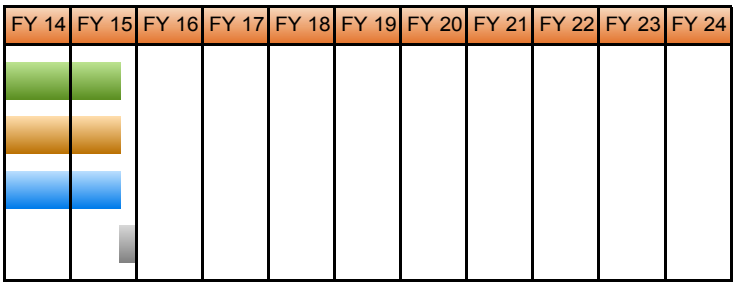
The project will purchase multiple sites for preservation in Santa Clara Basin as they become available.
No map is provided.

SCHEDULE & STATUS

July 2003 to June 2015

Some environmental tasks in the planning phase continue thru construction. Land acquisition is shown in the design phase, with restoration of site habitat shown in the construction phase.

Phase	Cost
Plan	2,366
Design	11,690
Construct	72
Closeout	20
	14,148



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
62184001-SMP Mitigation Stream and Watershed Land Preservation	7,461	2,495	4,248	0	0	0	0	0	14,204
with inflation	7,461	2,495	4,248	0	0	0	0	0	14,204

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
62184001-SMP Mitigation Stream and Watershed Land Preservation	8,633	2,495	1,172	3,076	0	0	0	0	0	14,204

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	14,204
Other Funding Source	0
Total	**14,204**

OPERATING COST IMPACTS

Operating cost will vary, depending on the type of acquisition ownership and requirements for maintenance of each site. The Stevens Canyon Ranch Conservation Easement was acquired in December 2006 and there are no operating impacts to the District. The property owner, Mid-Peninsula Regional Open Space District is responsible for maintenance and management of the site.

USEFUL LIFE: 50+ Years

Project	**Alviso Slough**
Program	Water Resources Stewardship
Priority No.	24
Project No.	30154029s
District Contact	Melanie Richardson mrichardson@valleywater.org

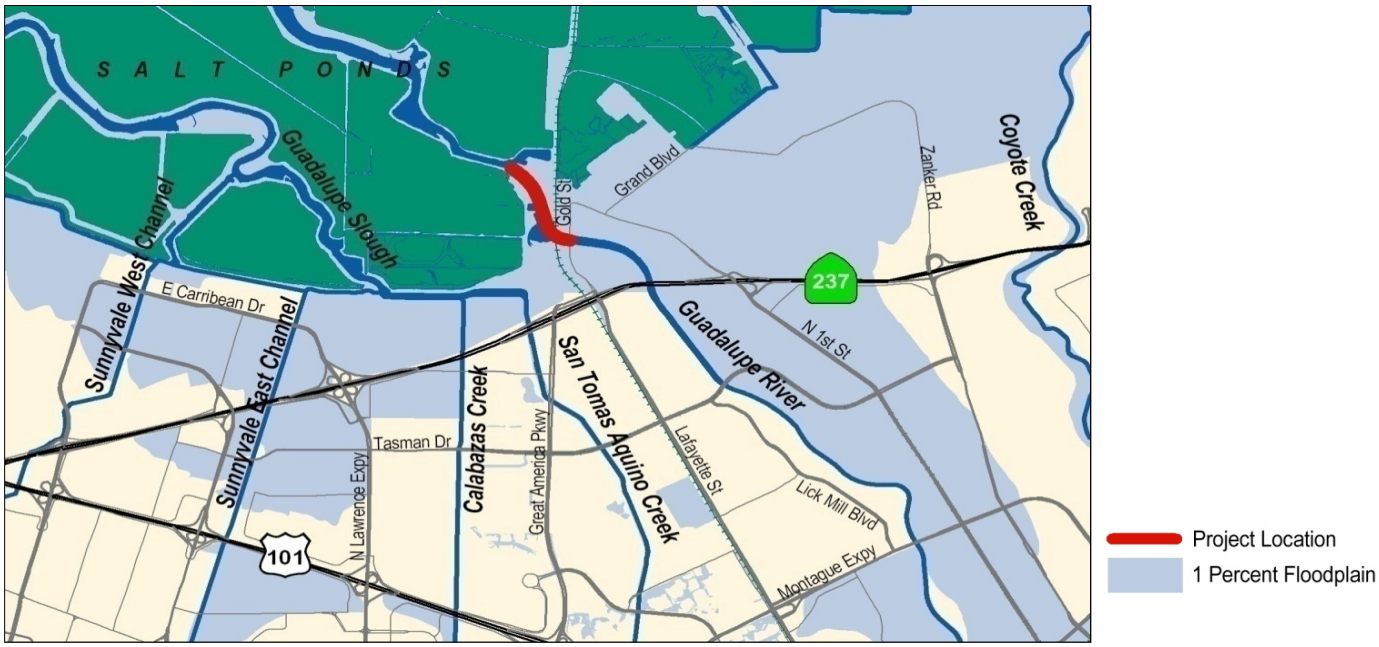
Alviso Slough as seen from Gold Street Bridge

PROJECT DESCRIPTION

This project plans, designs and provides for the removal of vegetation over 3.7 acres, and dredging within that same footprint to a depth of 8 feet from Alviso Slough between the Gold Street Bridge and County Marina to accomplish the following objectives:

- Restore the slough's open water channel width to conditions that existed prior to 1983.
- Improve navigation so the community can expand on boating and other recreational opportunities.
- Restore historic and public access and aesthetics for the Alviso community.
- Maintain one-percent flood protection in Alviso Slough.
- Reduce mosquito nuisance.
- Expand open water habitat and inundated mudflat habitat of the slough.
- Promote integration with the Salt Pond Restoration Program to bring salt water connections to the Lower Guadalupe River.

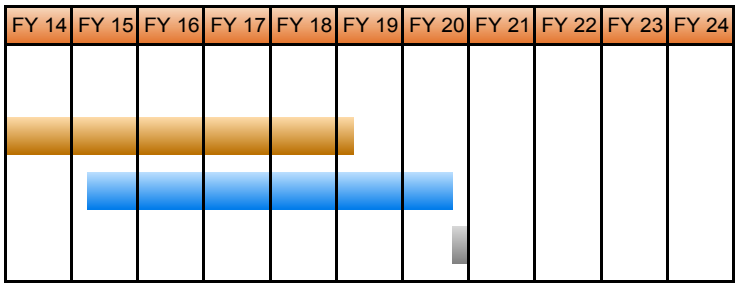
PROJECT LOCATION



SCHEDULE & STATUS

November 2004 to June 2020

Phase	Cost
Plan	4,453
Design	1,782
Construct	11,216
Closeout	30
	17,481



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
30154029-Alviso Slough - Planning	2,894	0	0	0	0	0	0	0	2,894
with inflation	2,894	0	0	0	0	0	0	0	2,894
30154030-Alviso Slough - Design & Construction	1,258	700	931	10,595	380	400	340	20	14,624
with inflation	1,258	700	931	11,064	427	468	414	25	15,287
TOTAL	4,152	700	931	10,595	380	400	340	20	17,518
with inflation	4,152	700	931	11,064	427	468	414	25	18,181

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

.	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
30154029-Alviso Slough - Planning	2,894	0	0	0	0	0	0	0	0	2,894
30154030-Alviso Slough - Design & Construction	3,048	2,337	3,427	0	8,568	427	468	414	25	15,287
TOTAL	5,942	2,337	3,427	0	8,568	427	468	414	25	18,181

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	18,181
Other Funding Source	0
Total	**18,181**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $4 million every 3 years, beginning in FY 2021, for on-going sediment removal.

USEFUL LIFE: Not Available

Project	**FAHCE Stevens Creek Fish Passage Enhancement**
Program	Water Resources Stewardship
Priority No.	65
Project No.	00294001s
District Contact	Melanie Richardson mrichardson@valleywater.org

Example of a fish ladder to be modified or reconstructed for better fish passage

PROJECT DESCRIPTION

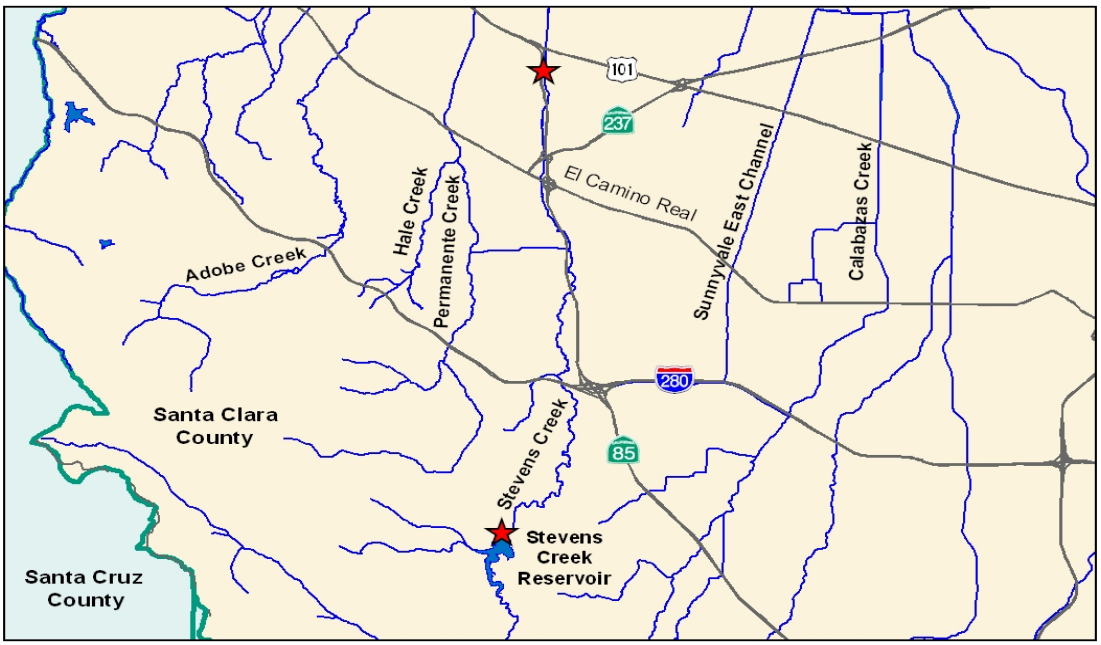
This project plans, designs, and constructs improvements to the Moffett Boulevard fish ladder to improve fish passage as well as a multiport outlet at Stevens Creek Dam to accomplish the following objectives:

- Restore and maintain a healthy steelhead trout population in the Stevens Creek watershed.
- Provide a suitable spawning and rearing habitat below Stevens Creek Dam within a cold water management zone determined on an annual basis through the development of an operations plan.
- Provide adequate passage for adult steelhead trout to reach suitable spawning and rearing habitat and for out-migration of juveniles.

This project is accounted for in the following job numbers:

- 00294001—Fish Passage Planning
- 00C40145—Moffett Boulevard Fish Ladder
- 00C40198—Multi-Port Outlet at Dam

PROJECT LOCATION



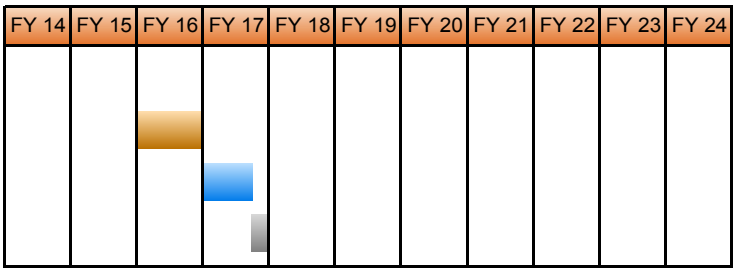
★ Project Location

SCHEDULE & STATUS

July 2008 to June 2017

Planning phase is complete. Project on hold pending completion of the Three Creeks Habitat Conservation Plan, to be done in a separate operating project.

Phase	Cost
Plan	946
Design	1,192
Construct	2,749
Closeout	32
	4,919



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	850
with inflation	850	0	0	0	0	0	0	0	850
00C40145-FAHCE Stevens Ck Fish Ladder at Moffett Blvd	0	0	0	1,025	1,797	0	0	0	2,823
with inflation	0	0	0	1,109	1,907	0	0	0	3,016
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	262	984	0	0	0	1,246
with inflation	0	0	0	283	1,046	0	0	0	1,330
TOTAL	**850**	**0**	**0**	**1,288**	**2,781**	**0**	**0**	**0**	**4,919**
with inflation	**850**	**0**	**0**	**1,393**	**2,953**	**0**	**0**	**0**	**5,196**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	0	850
00C40145-FAHCE Stevens Ck Fish Ladder at Moffett Blvd	0	0	0	0	1,109	1,907	0	0	0	3,016
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	0	283	1,046	0	0	0	1,330
TOTAL	**850**	**0**	**0**	**0**	**1,393**	**2,953**	**0**	**0**	**0**	**5,196**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund–10%	520
SCVWD Water Utility Enterprise Fund–90%	4,676
Total	**5,196**

OPERATING COST IMPACTS

Operating costs will be determined during the planning phase.

USEFUL LIFE: 50 Years

Project	**SCW Implementation Fund**
Program	Water Resources Stewardship
Priority No.	40
Project No.	26C40370
District Contact	TBD TBD

Aerial view looking downstream of the Ogier Pond complex. This is just one possible site under consideration.

PROJECT DESCRIPTION

This project is a placeholder for future capital projects that have not been fully defined. These projects will implement SCW objectives and are likely to include projects such as Comer Debris Basin, and construction of Lake Almaden-Guadalupe River-Alamitos Creek Restoration. Funds will be moved from this project into actual projects once they have been defined and vetted to ensure they meet the following program objectives:

- Create favorable stream conditions to restore and maintain fisheries.
- Increase the stability of stream channels through construction based on geomorphic principals.
- Acquisition of property for the conservation of habitat.

PROJECT LOCATION

No map is provided for this project

SCHEDULE & STATUS

July 2014 to June 2028

Data shown here is based on preliminary information. Specific projects identified to move forward will require further refinement. A Phase schedule will be defined in the planning phase.

Phase	Cost
Plan	9,042
Design	26,480
Construct	13,169
Closeout	479
	49,170

FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26C40370-SCW Implementation Fund	0	0	0	3,536	3,302	12,624	7,871	21,837	49,170
with inflation	0	0	0	3,825	3,714	14,233	9,494	31,513	62,779

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26C40370-SCW Implementation Fund	0	0	0	0	3,825	3,714	14,233	9,494	31,513	62,779

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	41,675
SCVWD Water Utility Enterprise Fund	10,552
SCVWD Watershed and Stream Stewardship Fur	10,552
Total	**62,779**

OPERATING COST IMPACTS

Not Available

USEFUL LIFE: Not Available

Project	**Singleton Road Fish Passage Improvements**
Program	Water Resources Stewardship
Priority No.	74
Project No.	26C40384
District Contact	Liang Lee Llee@valleywater.org

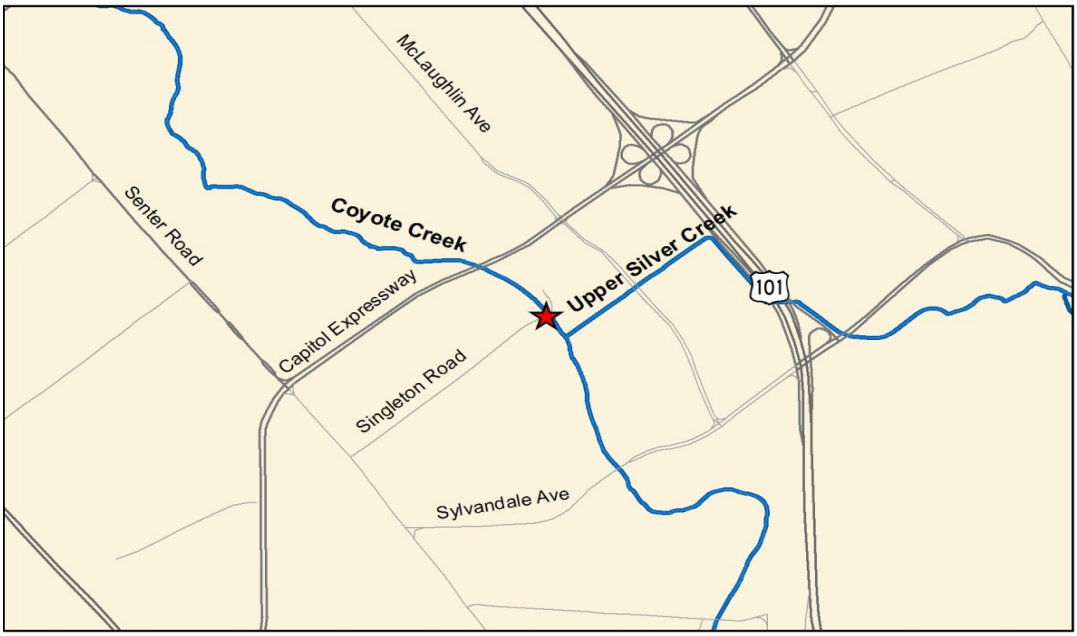
View of the Singleton Road fish barrier from the east bank downstream of the barrier

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the fish passage on Coyote Creek at the Singleton Road crossing to accomplish the following objectives:

- Removal of two pipe culverts and the road that creates a fish migration barrier.
- Removal of a concrete barrier approximately 500 feet downstream of the existing culverts.
- Restore the stream corridor at and adjacent to the culvert location once it is removed.
- Replace the road with a free span pedestrian bridge to maintain the connection between the east and west banks where an existing Coyote Creek Trail is located.

PROJECT LOCATION

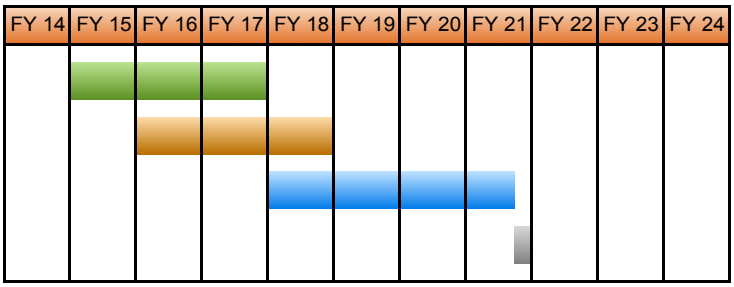


★ Project Location

SCHEDULE & STATUS

July 2014 to June 2021

Phase	Cost
Plan	528
Design	414
Construct	2,138
Closeout	10
	3,090



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26C40384-Singleton Road Fish Passage Improvements	0	0	339	383	210	2,038	40	80	3,090
with inflation	0	0	339	414	236	2,227	49	103	3,368

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
26C40384-Singleton Road Fish Passage Improvements	0	0	0	339	414	236	2,227	49	103	3,368

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Safe, Clean Water Fund	3,368
Other Funding Sources	0
Total	**3,368**

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: 50 Years

Building and Grounds Capital Improvements

BUILDINGS AND GROUNDS OVERVIEW

The District's Almaden-Winfield campus occupies nearly 50 acres along Almaden Expressway in the City of San Jose. The District manages the campus to ensure a healthful and safe work environment for employees and visitors. The campus includes 10 buildings, multiple parking lots, a corporation yard, landscaping, and other appurtenances.

With most of the buildings on campus over 30 years old, the rehabilitation needs increased steadily in recent years. The District administers an asset management program for its buildings and grounds infrastructure that includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended over its useful life.

In January of 2012 the Board approved implementation of the Campus Master Plan which includes the following:

- Repair and rehabilitate the existing Corporation yard.
- Repair Winfield Warehouse and Winfield Vegetation buidlings.
- Replace the Maintenance Office and Ready Room buildings.

Major Capital Improvements Identified in the CIP

- Almaden & Winfield Campus Small Capital Improvements
- Winfield Capital Improvements
- Headquarters Operations Building

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to rate the buildings and grounds projects against other types of capital improvements. The priority criteria used are included in Appendix A.

Financial analysis of the following funding sources for buildings and grounds capital improvements was conducted to determine if there are limitations to funding all the proposed capital projects.

- Watershed and Stream Stewardship Fund
- General Fund
- Water Utility Enterprise Fund

Results of this year's prioritization process and financial analysis are summarized in Appendix B. The process concluded that the Almaden and Winfield Campus Small Capital Improvements will continue to be funded at $2 million per year to meet the higher priority Buildings and Grounds needs. The first of the projects from the Campus Master Plan began in FY2012-13 and the Headquarters Operations Building was added to the FY2015-19 CIP.

Building and Grounds Capital Improvements

The following table is a project funding schedule for buildings and grounds capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2013-14.

Buildings and Grounds Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
60204016	Almaden and Winfield Campus, Small Capital Improvements	n/a	2,080	-	2,080	2,089	2,135	2,182	2,231	24,961	37,758
60204032	Headquarters Operations Building	0	0	-	219	799	2,314	13,273	-	-	16,605
60204021	Winfield Capital Improvements	125	1,560	761	7,577	622	-	-	-	-	9,884
	TOTAL	125	3,640	761	9,876	3,510	4,449	15,455	2,231	24,961	64,247

FY 2013-14 Funds to be reappropriated

The following table shows funding requirements from each funding source for buildings and grounds capital improvements.

Buildings and Grounds – Funding Sources ($K)

Fund Number	FUND NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
11	General Fund	125	3,640	761	9,876	3,510	4,449	15,455	2,231	24,961	64,247
	TOTAL	125	3,640	761	9,876	3,510	4,449	15,455	2,231	24,961	64,247

FY 2013-14 Funds to be reappropriated

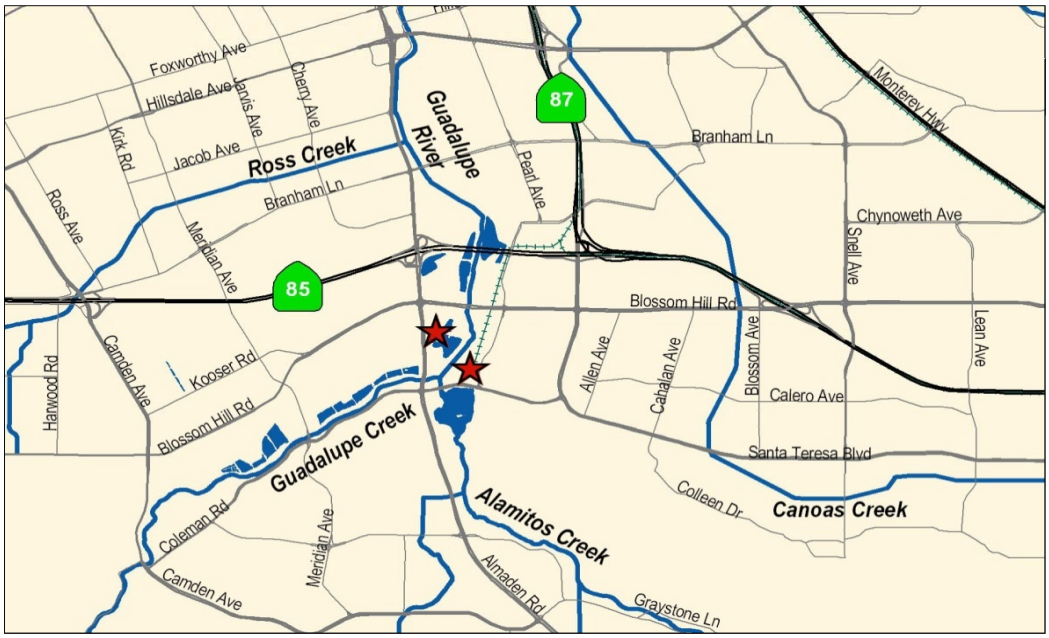
Project	**Almaden and Winfield Campus, Small Capital Improvements**
Program	Buildings and Grounds
Priority No.	73
Project No.	60204016
District Contact	Ravi Subramanian rsubramanian@valleywater.org

Front view of the Headquarters building at the Almaden Campus

PROJECT DESCRIPTION

This project reserves funding for capital maintenance and replacement of buildings, grounds, and facilities on the Almaden and Winfield campus, to provide a healthy and safe environment for staff and visitors.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

Improvements will be managed on an as-needed basis throughout the year.

Phase	Cost	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24
Plan	n/a											
Design	n/a											
Construct	n/a											
Closeout	n/a											
	n/a											

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
60204016-Almaden and Winfield Campus, Small Capital Improvements	n/a	2,080	2,080	2,000	2,000	2,000	2,000	20,000	32,160
with inflation	n/a	2,080	2,080	2,089	2,135	2,182	2,231	24,962	37,759

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
60204016-Almaden and Winfield Campus, Small Capital Improvements	n/a	2,080	0	2,080	2,089	2,135	2,182	2,231	24,962	37,759

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	37,759
Other Funding Source	0
Total	**37,759**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs. The purpose of these maintenance projects is to avoid unnecessary financial impact caused by building shut-down and work stoppage.

USEFUL LIFE: Not Available

Project	**Headquarters Operations Building**
Program	Buildings and Grounds
Priority No.	65
Project No.	60204032
District Contact	Katherine Oven koven@valleywater.org

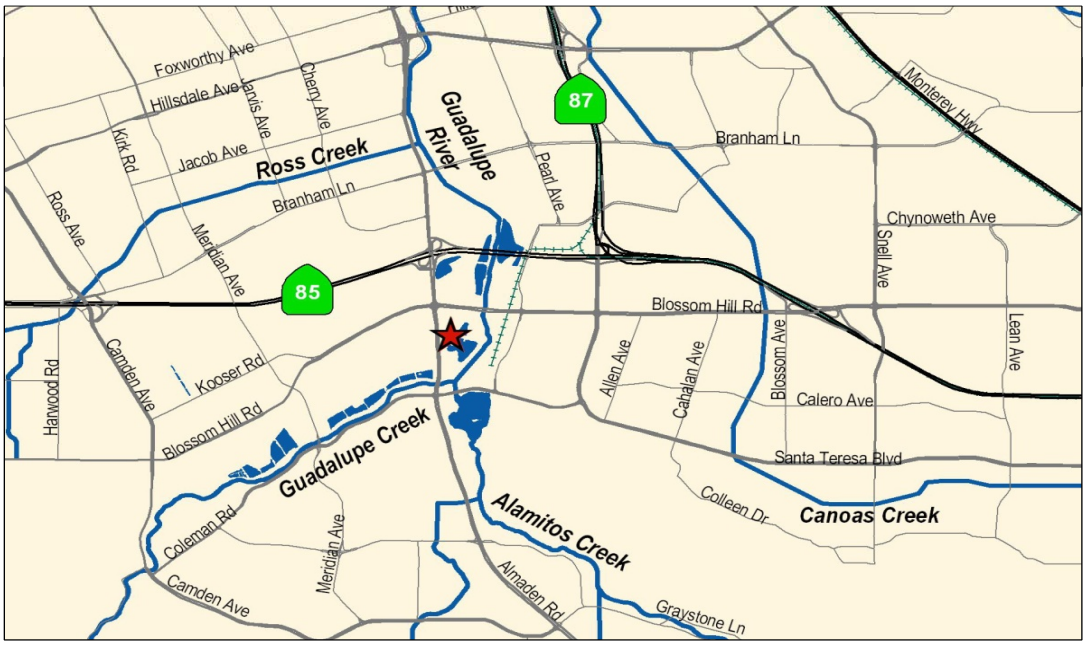
Existing Maintenance Building

PROJECT DESCRIPTION

This project plans, designs, and constructs a new operations building to replace the existing facility that has extensive deficiencies throughout. This project accomplishes the following objectives:

- Replace the Maintenance Office Building to provide a safe and healthy work environment and to meet code or regulatory requirements.
- Provide adequate and sufficient space to enable the District to efficiently perform its core business.

PROJECT LOCATION

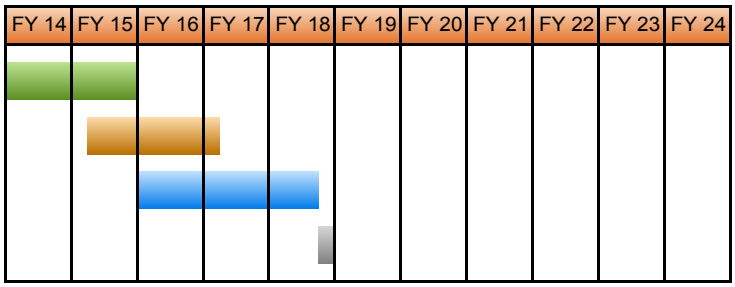


★ Project Location

SCHEDULE & STATUS

July 2014 to June 2017

Phase	Cost
Plan	746
Design	2,162
Construct	12,191
Closeout	53
	15,152



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
60204032-Headquarters Operations Building	0	0	219	738	2,057	12,138	0	0	15,152
with inflation	0	0	219	799	2,314	13,273	0	0	16,604

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
60204032-Headquarters Operations Building	0	0	0	219	799	2,314	13,273	0	0	16,604

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	16,604
Other Funding Sources	0
Total	**16,604**

OPERATING COST IMPACTS

Operating costs will be determined during the planning phase.

USEFUL LIFE: Not Available

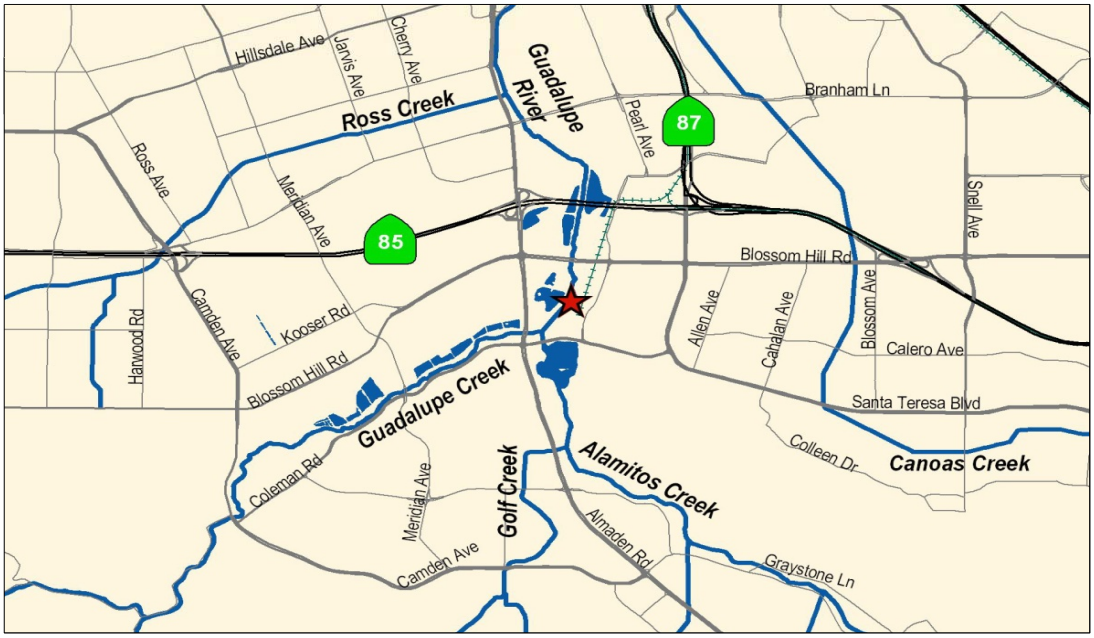
Project	**Winfield Capital Improvements**
Program	Buildings and Grounds
Priority No.	70
Project No.	60204021
District Contact	Katherine Oven koven@valleywater.org

A view of the District's Vegetation Management building on Winfield Blvd

PROJECT DESCRIPTION

This project is to repair, maintain and improve the Winfield Warehouse and Winfield Vegetation Buildings, to provide a healthy and safe environment for staff and visitors. This includes improving restroom and shower facilities, enclosing the open section of the warehouse and providing a safe and fully functioning Class IV workshop, seismic upgrades and a new roof.

PROJECT LOCATION

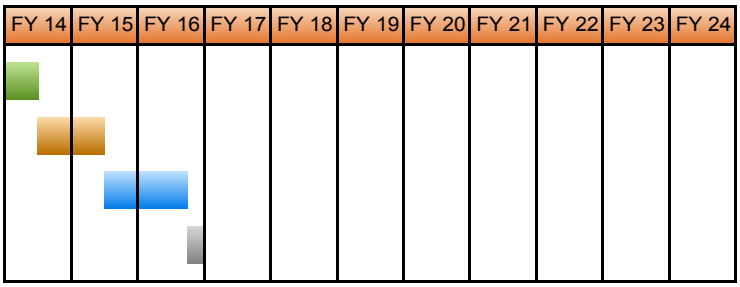


★ Project Location

SCHEDULE & STATUS

September 2012 to October 2015

Phase	Cost
Plan	180
Design	1,329
Construct	8,303
Closeout	25
	9,837



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
60204021-Winfield Capital Improvements	104	820	8,338	575	0	0	0	0	9,837
with inflation	104	820	8,338	622	0	0	0	0	9,884

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
60204021-Winfield Capital Improvements	125	1,560	761	7,577	622	0	0	0	0	9,884

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	9,884
Other Funding Source	0
Total	**9,884**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs.

USEFUL LIFE: Not Available

Information Technology Capital Improvements

INFORMATION TECHNOLOGY OVERVIEW

The District relies on its software systems and technology infrastructure to help manage its core responsibilities of water supply, flood protection, and environmental stewardship. Recognizing the importance of Information Technology to its success, the District completed the Information Systems Master Plan (ISMP) in 2012. The ISMP is an 8-year plan consisting of 32 capital and non-capital improvement projects.

In 2014, the Information Technology Capital Fund was created, it accounts for the costs to aquire, and install capital information technology projects with District-wide benefit. Projects include acquisition and replacement of computers, networks, and communications systems as well as major investments in enterprise software systems.

Costs are billed to user departments as Intra-District Computer Equipment Charges. Billing rates will be set to smooth charges over time by recovering current costs and accumulating reserves for major planned future projects. Current year charges or a combination of current year charges and reserves may be used to fund authorized projects. The purpose of this fund is to provide adequate resources while avoiding peaks and valleys in charges to user departments.

Major Capital Improvements Identified in the CIP

- Information Technology Disaster Recovery
- PeopleSoft System Upgrade and Expansion

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to rate the information technology projects against other types of capital improvements. The priority criteria used are included in Appendix A.

Financial analysis of the Information Technology Capital Fund was conducted to determine if there are limitations to funding the planned capital projects. Results of this year's prioritization process and financial analysis are summarized in Appendix B. Funding needs for approved Information Technology projects can be met.

Information Technology Capital Improvements

The following table is a project funding schedule for information technology capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2013-14.

Information Technology Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
73274003	Campus Computer Network Modernization	-	-	-	1,145	-	-	-	-	-	1,145
73274001	IT Disaster Recovery	-	-	-	208	371	270	-	-	-	849
60274062s	PeopleSoft System Upgrade & Expansion	-	4,099	-	1,563	419	710	292	-	-	7,083
95274003	Water Utility Computer Network Modernization	-	-	-	473	-	-	-	-	-	473
	TOTAL	-	4,099	-	3,389	790	980	292	-	-	9,550

FY 2013-14 Funds to be reappropriated

The following table shows funding requirements from each funding source for information technology capital improvements.

Information Technology – Funding Sources ($K)

Fund Number	FUND NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
61	Water Utility Enterprise Fund	-	-	-	473	-	-	-	-	-	473
11	General Fund	-	4,099	-	-	-	-	-	-	-	4,099
73	Information Technology Fund	-	-	-	2,916	790	980	292	-	-	4,978
	TOTAL	-	4,099	-	3,389	790	980	292	-	-	9,550

FY 2013-14 Funds to be reappropriated

Project	**Campus Computer Network Modernization**
Program	Information Technology
Priority No.	38
Project No.	73274003
District Contact	Ravi Subramanian rsubramanian@valleywater.org

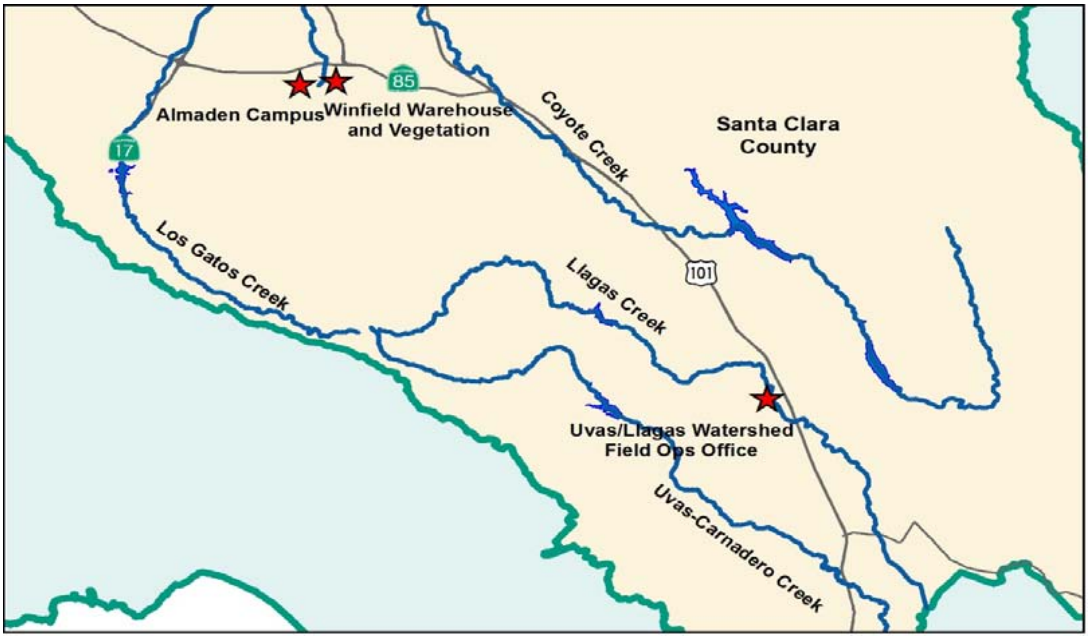
View of existing networking equipment located at the SCVWD Headquarters Campus

PROJECT DESCRIPTION

This project plans, designs, and implements upgrades to the existing network to ensure that the District has a current and robust computer network to accomplish the following objectives:

- Deliver greater access speeds.
- Restore vendor maintenance.
- Improve software application performance.
- Provide a path to meet future data communications needs.

PROJECT LOCATION

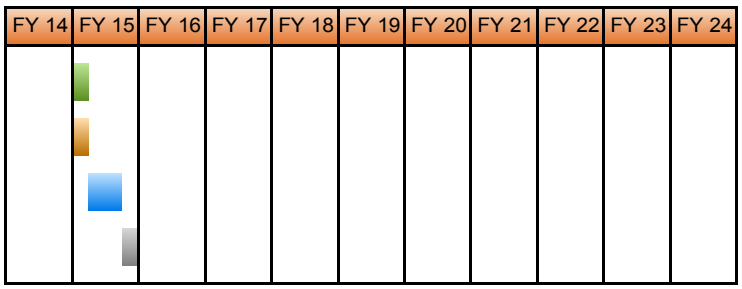


★ Project Location

SCHEDULE & STATUS

July 2014 to June 2015

Phase	Cost
Plan	-
Design	-
Construct	1,145
Closeout	-
	1,145



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
73274003-Campus Computer Network Modernization	0	0	1,145	0	0	0	0	0	1,145
with inflation	0	0	1,145	0	0	0	0	0	1,145

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
73274003-Campus Computer Network Modernization	0	0	0	1,145	0	0	0	0	0	1,145

FUNDING SOURCES

(in thousands $)

SCVWD Information Technology Fund	1,145
Other Funding Sources	0
Total	**1,145**

OPERATING COST IMPACTS

Upon completion of this project operating costs are anticipated to increase by $95,000 beginning in FY16 with an increase of 3% each year after that to pay for hardware maintenance agreements.

USEFUL LIFE: 10 Years

Project	**Information Technology Disaster Recovery**
Program	Information Technology
Priority No.	41
Project No.	73274001
District Contact	Ravi Subramanian rsubramanian@valleywater.org

Existing Data Center that houses critical servers supporting the District's normal operations

PROJECT DESCRIPTION

This project plans and designs improvements to Information Technology to accomplish the following objectives:

- Enable coordinated, rapid recovery from a disaster.
- Reduce the District's business risk exposure.

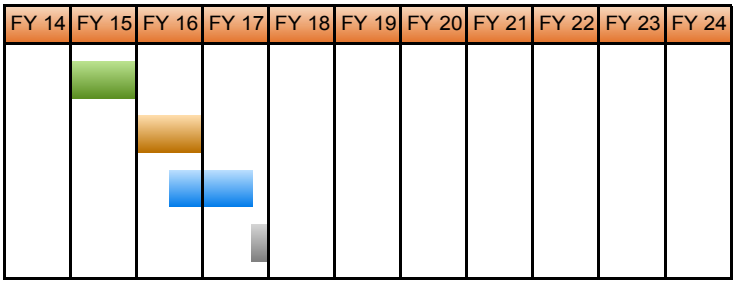
PROJECT LOCATION

No Map is provided for this project

SCHEDULE & STATUS

July 2014 to June 2017

Phase	Cost
Plan	208
Design	100
Construct	500
Closeout	-
	808



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
73274001-Information Technology Disaster Recovery	0	0	208	350	250	0	0	0	808
with inflation	0	0	208	371	270	0	0	0	849

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
73274001-Information Technology Disaster Recovery	0	0	0	208	371	270	0	0	0	849

FUNDING SOURCES

(in thousands $)

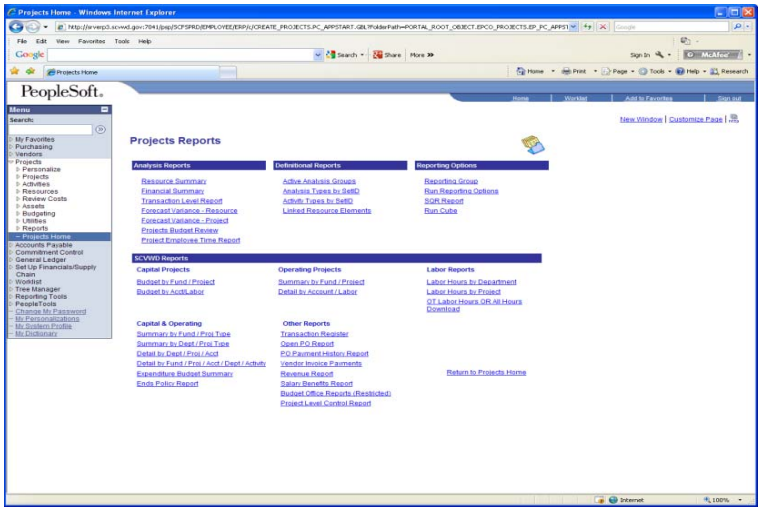
SCVWD Information Technology Fund	849
Other Funding Sources	0
Total	**849**

OPERATING COST IMPACTS

Ongoing annual costs will need to be determined and be based on implemented solutions.

USEFUL LIFE: Not Available

Project	**PeopleSoft System Upgrade and Expansion**
Program	Information Technology
Priority No.	31
Project No.	60274062s
District Contact	Ravi Subramanian rsubramanian@valleywater.org



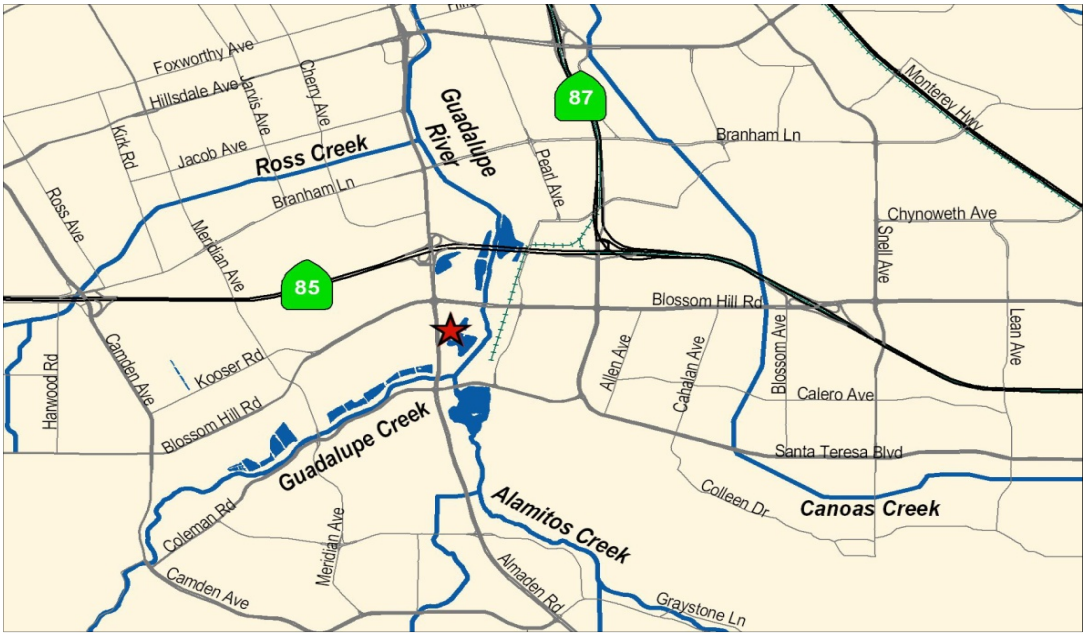
Screenshot of PeopleSoft Reports page
from the District's intranet

PROJECT DESCRIPTION

This project plans, designs, and implements improvements to the existing PeopleSoft system in order to accomplish the following objectives:

- Ensure the District has a current and functionally robust enterprise resource planning (ERP) solution, incorporating finance/human resource, timekeeping, planning and budgeting, and procurement functionality.
- Fully automate the District's financial and human resources management functions.
- Automate the tracking and reporting of the District's labor effort and employee leave.
- Automatically apply the District's business rules to employee time records.

PROJECT LOCATION

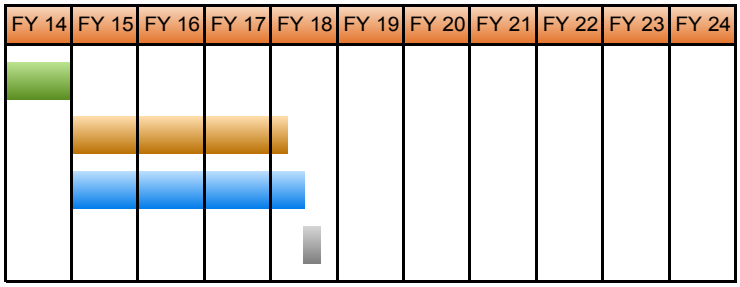


★ Project Location

SCHEDULE & STATUS

July 2013 to February 2018

Phase	Cost
Plan	184
Design	1,435
Construct	5,340
Closeout	3
	6,962



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	**FY13**	**FY14**	**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
60274062-PeopleSoft System Upgrade and Expansion	0	4,099	0	0	0	0	0	0	4,099
with inflation	0	4,099	0	0	0	0	0	0	4,099
73274002-PeopleSoft System Upgrade and Expansion	0	0	1,563	389	651	260	0	0	2,863
with inflation	0	0	1,563	419	710	292	0	0	2,985
TOTAL	0	4,099	1,563	389	651	260	0	0	6,962
with inflation	0	4,099	1,563	419	710	292	0	0	7,084

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	**FY13**	**FY14**		**FY15**	**FY16**	**FY17**	**FY18**	**FY19**	**Future**	
60274062-PeopleSoft System Upgrade and Expansion	0	4,099	0	0	0	0	0	0	0	4,099
73274002-PeopleSoft System Upgrade and Expansion	0	0	0	1,563	419	710	292	0	0	2,985
TOTAL	0	4,099	0	1,563	419	710	292	0	0	7,084

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	4,099
SCVWD Information Technology Fund	2,985
Total	**7,084**

OPERATING COST IMPACTS

Upon completion of this project, one full-time employee will be needed for expanded technical support for new system modules and features and to continue with operational refinements, enhancements, integrations, report development, etc. on an on-going annual basis. PeopleSoft software maintenance fees are required on an annual recurring basis and projected to increase by three percent each year. The projected annual software maintenance fee for FY 2019 is approximately $164,324.

USEFUL LIFE: 5 Years

Project	**Water Utility Network Modernization**
Program	Information Technology
Priority No.	38
Project No.	95274003
District Contact	Ravi Subramanian rsubramanian@valleywater.org

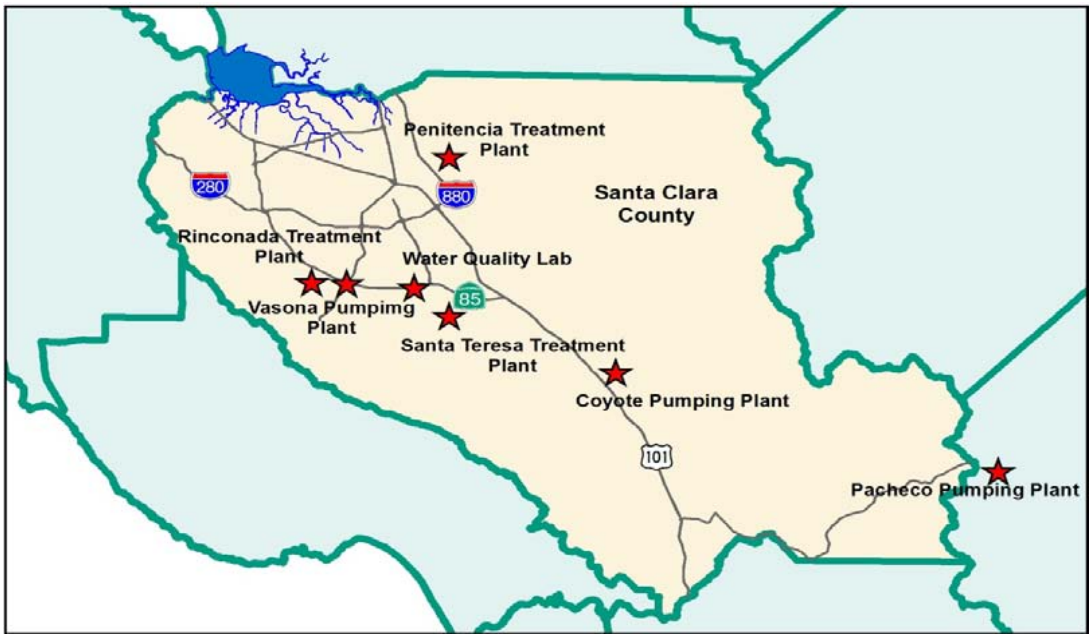
View of network equipment to be modernized at the Water Quality Lab

PROJECT DESCRIPTION

This project plans, designs, and implements upgrades to the existing network to ensure that the District has a current and robust computer network to accomplish the following objectives:

- Deliver greater access speeds.
- Restore vendor maintenance.
- Improve software application performance.
- Provide a path to meet future data communications needs.

PROJECT LOCATION

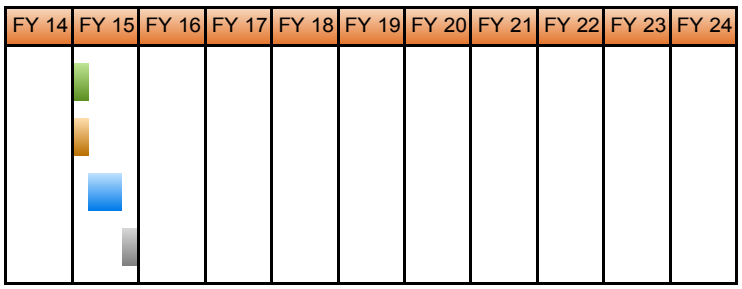


★ Project Location

SCHEDULE & STATUS

July 2014 to June 2015

Phase	Cost
Plan	-
Design	-
Construct	473
Closeout	-
	473



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY13	FY14	FY15	FY16	FY17	FY18	FY19	Future	
95274003-Water Utility Network Modernization	0	0	473	0	0	0	0	0	473
with inflation	0	0	473	0	0	0	0	0	473

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY13	FY14		FY15	FY16	FY17	FY18	FY19	Future	
95274003-Water Utility Network Modernization	0	0	0	473	0	0	0	0	0	473

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	473
Other Funding Sources	0
Total	**473**

OPERATING COST IMPACTS

Upon completion of this project operating costs are anticipated to increase by $37,000 beginning in FY16 with an increase of 3% each year after that to pay for hardware maintenance agreements.

USEFUL LIFE: 10 Years

Financial Planning and Summary

CIP FINANCIAL PLANNING

Board policy regarding financial planning and budgeting provides the foundation for CIP financial planning. The policy states:

Executive Limitation EL-4, "Financial planning for any fiscal year shall be aligned with the Board's Ends, not risk fiscal jeopardy, and be derived from a multi-year plan."

> Executive Limitation EL-4.3, "A BAO shall include credible projection of revenues and expenses, separation of capital and operational items, cash flow, and disclosure of planning assumptions."
>
> Executive Limitation EL-4.4, "A BAO shall plan the expenditure in any budget period within the funds that are conservatively projected to be received or appropriated from reserves in that period."

KEY REVENUES SOURCES

Water Charges

- Water charges include a ground water production charge, which is equivalent to the basic user charge, and is associated with the benefit of managing groundwater supplies. The groundwater charge is applied to water extracted from the groundwater basin in Zones W-2 and W-5. The basic user charge is applied to other types of water delivered by the District. There are two rates: one for agricultural water and one for municipal and industrial water.

- A treated water surcharge, which is associated with the benefit of receiving treated water, is levied in addition to the basic user charge on water delivered from the District's water treatment plants.

Property Tax

Santa Clara County allocates property tax revenue to the District from ad valorem taxes levied on land within the county.

Special Parcel Tax

A special parcel tax, with a 2016 sunset, was approved by the voters in Santa Clara County in November 2000. This revenue source was restricted to financing the costs of the District's Clean, Safe Creeks and Natural Flood Protection Program. In November 2012 the special parcel tax was continued by voter approval to 2028. This revenue can be used for both the continuing Clean, Safe Creeks and new Safe, Clean Water programs.

Benefit Assessments

Benefit assessment revenue consists of levies approved by voters in 1986 and 1990 to support financing for flood control capital improvements. The current FY 2014-15 budget amount is approximately 1.25 times the duly authorized annual debt service requirements for each Watershed.

Capital Reimbursements

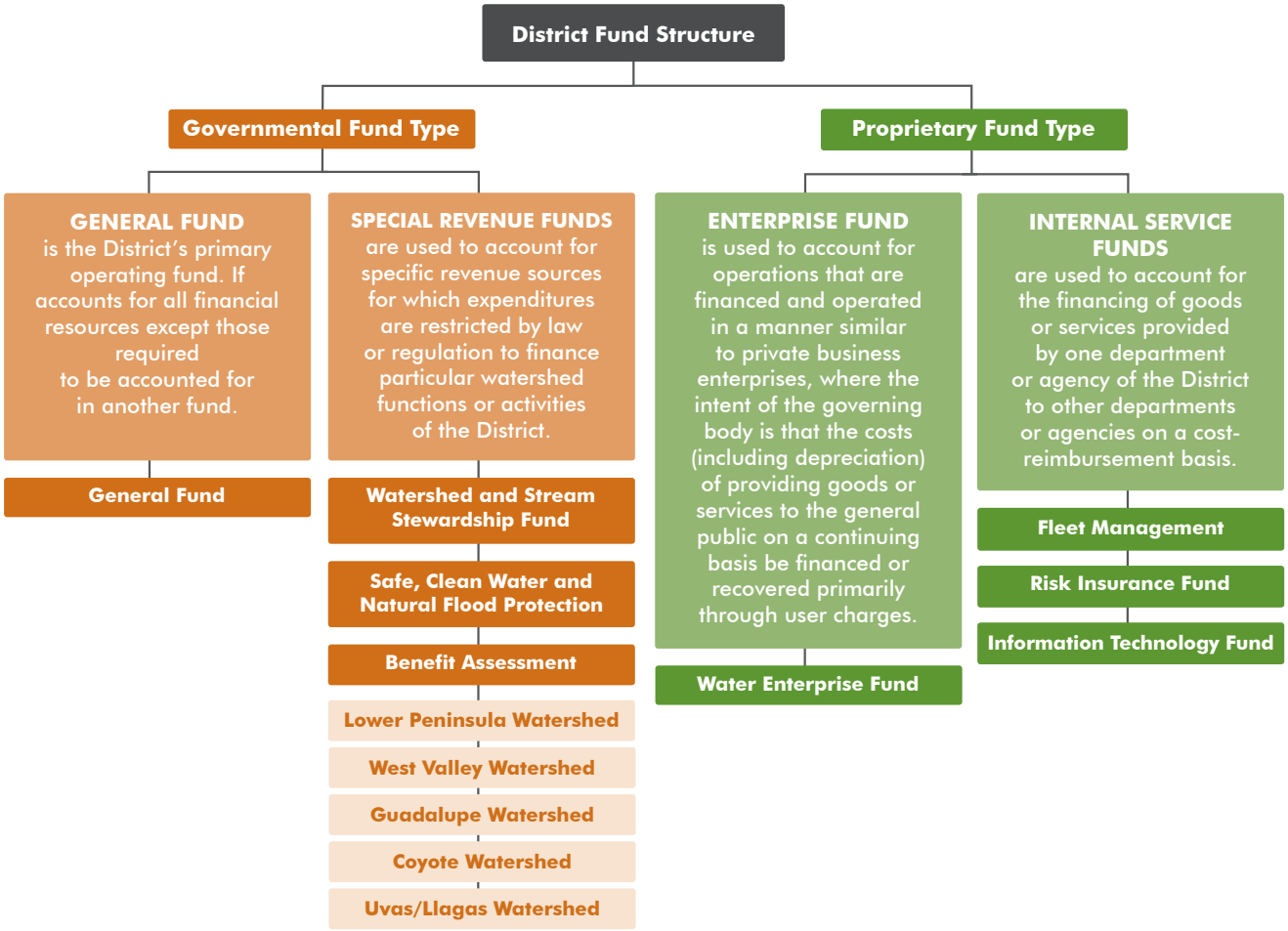
Capital reimbursement revenues are from local, state and federal partners for capital projects carried on cooperatively by the District and its partners. The District fronts the partners' shares of capital expenditures and receives reimbursements from the partners at a later time.

Interest

Interest is earned from the District's investment portfolio.

District Fund Structure

The District's revenue sources are organized into eight funds. Each fund has specific revenue sources according to their intended purposes, and each fund is an independent accounting entity with a self-balancing set of accounts comprised of its assets, liabilities, fund equity, revenue, and expenditures or expenses, as appropriate.



Revenue by Fund ($K)

FUND NAME	FY14 Budget	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24
Water Utility Enterprise	188,242	201,130	227,415	234,148	257,204	288,743	305,427	328,882	353,883	367,428	388,109
Watershed Stream Stewardship	80,292	94,335	58,582	60,907	62,502	65,118	67,130	70,120	72,462	75,753	78,385
Safe, Clean Water and Natural Flood Protection	47,160	56,755	85,826	50,889	50,976	46,089	51,467	50,568	55,943	52,150	54,446
Benefit Assessment	16,149	16,079	14,778	14,785	14,778	14,778	13,447	13,458	13,457	13,448	13,443
General	5,539	5,418	5,606	5,801	5,973	6,151	6,334	6,522	6,717	6,917	7,123
Internal Service	157	145	145	145	145	145	145	145	145	145	145
TOTAL	337,540	373,861	392,351	366,674	391,577	421,023	443,949	469,694	502,607	515,840	541,651

Note: Internal Service Funds (ISF) is the combination of the Fleet Management, IT Capital, and Risk Funds

Financial Planning and Summary

Revenue Projections

The District regularly updates the projected revenues based on the best information available.

- Revenues from water charges are estimated based on projections of water demand for residential, commercial and industrial, and agricultural consumption combined with rates per acre-foot. Rates are set at a level that will provide revenue needed to meet operating and capital needs.
- Revenues from property taxes, special parcel taxes, and benefit assessments are estimated based on projection of growth in assessed value and number of developed parcels in Santa Clara County.
- Interest earnings are estimated based on the projected average cash balances during the fiscal year and expected yield from the District's investment portfolio.
- Revenue from capital reimbursements partnerships are estimated based on the terms of agreements executed by the District and its partners.

Expenditure Projections

The District regularly updates the operation and capital expenditures based on the best information available.

Each capital project cost estimate includes the yearly expenditures through completion based on the project's scope and schedule. The expenditures are monitored regularly and updated when necessary, e.g. expenditures are updated when a project's scope changes. A management review process is enforced to ensure only justified expenditure changes are approved.

Operation cost projections for the next 15 years are updated annually and are based on assumptions derived from the District's strategic plans, including the impact of completed capital projects. Capital and operations expenditure projections are the foundation for the development of the District's budget.

Financial Analysis

The District regularly performs financial analysis to comply with the Board's Financial Planning/Budgeting Policy. The District uses sophisticated financial models to perform the analysis for each fund. The projected operation expenditures, capital expenditures, and revenues for the next ten years are incorporated into the financial models to analyze the health of each fund under various economic scenarios. This process assures that funds will be available when needed to implement the CIP.

The financial analysis generates alternatives for funding capital projects based on the available yearly revenues, from all sources, allocated to the capital program, and the debt financing capacity of each fund. The financial analysis establishes the parameters within which the capital project schedule is developed.

Debt Projections and Debt Ratios

Debt is managed at the District depending on the type of District business involved. The SCW program approved by the voters in 2012 includes the authority to issue debt against future revenue in order to accelerate completion of projects sooner. Debt service on outstanding benefit assessment debt is funded by benefit assessments levied on property owners in the county.

The water utility business, on the other hand, uses a combination of short-term and long-term debt financing in conjunction with pay-as-you-go financing to lessen impacts to the water rate caused by fluctuations in capital funding needs. In the 1984 general election, Measure B was passed by the voters, which gave the District's water utility the authority to issue bonds on an "as required" basis. Debt service on outstanding debt is paid from water revenues. Bond covenants stipulate that the District must maintain a 1.25 debt coverage ratio on all parity bonds. The long-term financial analysis targets a debt coverage ratio of 2.0, which helps establish the parameters for capital planning that ensure bond covenants will be met.

The District currently enjoys credit ratings that are among the highest for a water-related governmental entity in the state of California, which helps keep interest costs borne by the District at a minimum.

Relationship between the Operating Budget and CIP

Whenever the District commits to capital improvements, there is a potential for associated long-range commitment of operating funds. For example, if 20-year bonds are issued to finance capital needs, then the operating funds will need to budget debt service payments for the next two decades. For this reason, it is important to evaluate capital commitments in the context of their long-range operating impact.

In addition to the long-range debt service payments, some capital projects affect future operating budgets either positively or negatively due to an increase or decrease in maintenance and operation costs. Such impacts vary widely from project to project and, are evaluated individually during the project development stage. The District is committing to a potential change in the operating budget when a capital project is approved.

The projected debt service payments and the positive or negative operating budget impacts are important factors considered in the District's financial analysis.

This chart identifies the operating budget impacts to each fund from projected debt service payments. The debt service payment in the Watershed Stream Stewardship Fund is a total of payments associated with each individual watershed.

Debt Payment Schedule ($K)

Fund	FY15	FY16	FY17	FY18	FY19
General Fund	627	538	538	538	539
Watershed Stream Stewardship Fund	13,213	12,160	12,168	12,162	12,162
Safe, Clean Water and Natural Flood Protection Fund	-	-	16,675	16,675	16,675
Water Utility Enterprise Fund	21,394	26,646	34,165	44,655	58,632
Information Technology Fund	-	-	-	-	-
TOTAL	35,234	39,343	63,546	74,030	88,008

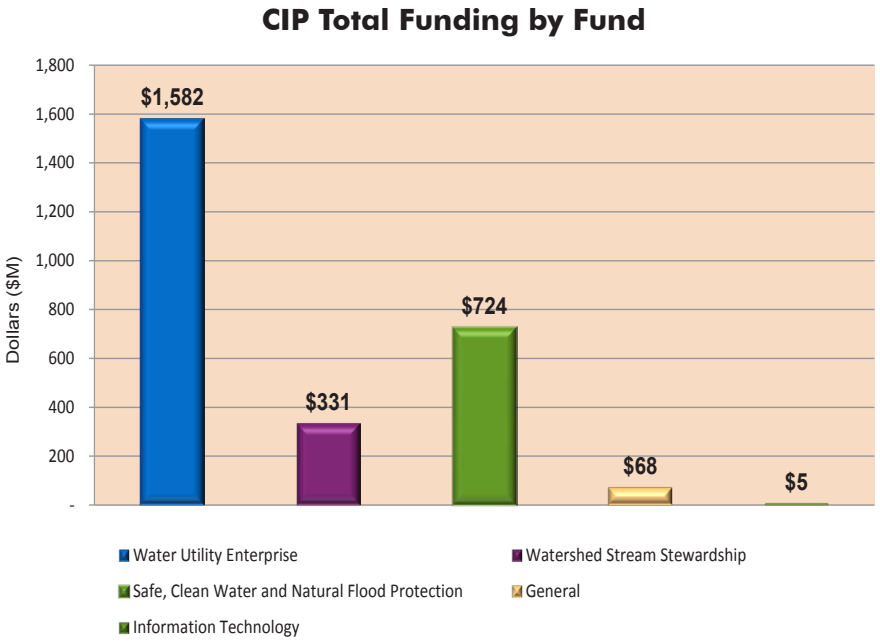
This chart identifies the net operating budget impacts to each fund resulting from annual maintenance and/or operating cost for newly completed capital projects. Additional information regarding operating impacts related to individual projects can be found on the project pages.

Estimated Operating Impacts ($K)

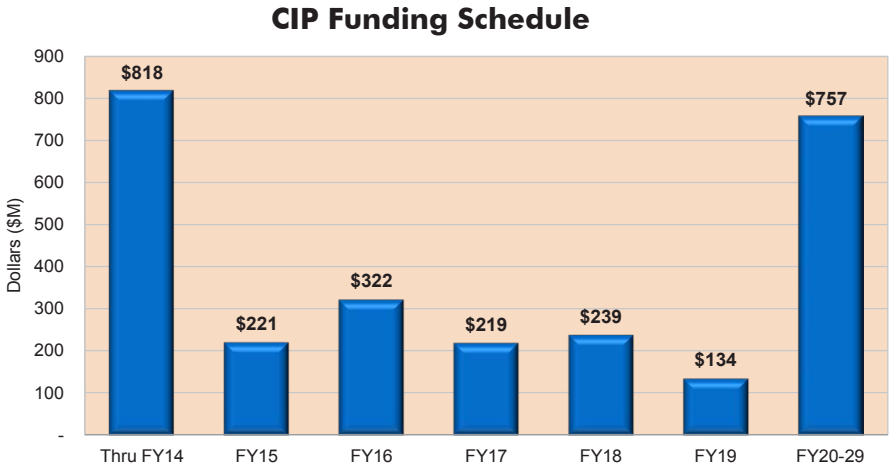
Fund	FY15	FY16	FY17	FY18	FY19	BEYOND
General Fund	-	-	-	-	-	-
Watershed Stream Stewardship Fund	50	65	65	100	100	100
Safe, Clean Water and Natural Flood Protection Fund	-	-	150	150	150	730
Water Utility Enterprise Fund	-	1,805	1,806	1,632	2,633	4,113
Information Technology Fund	-	95	98	101	268	276
TOTAL	50	1,965	2,119	1,983	3,151	5,219

CIP FUNDING SUMMARY

Of the $2.710 billion in total District funding for current and future projects, the Board appropriated $818 million in prior years through June 30, 2014 (the end of Fiscal Year 2013-14). This year's CIP process identified additional funding needs of $1.892 billion to complete the projects in the CIP, with $221 million allocated in Fiscal Year 2014-15 and a total of $1.67 billion proposed for future years.



The needed $2.710 billion to implement the 65 projects as defined in the CIP are funded by four of the District's seven Funds.



The following chart shows the funding schedule for the $2.710 billion to implement the 65 projects.

CIP Project Funding Schedule for Water Utility Enterprise Fund ($K)

PROJECT NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
Almaden Dam Improvements	4,365	1,782	98	1,213	12,222	9,426	6,029	148	-	35,185
Anderson Dam Seismic Retrofit	10,481	12,620	841	6,460	21,308	38,267	60,704	43,302	127	193,269
Calero and Guadalupe Dams Seismic Retrofits	2,369	4,427	20	7,270	1,533	14,428	57,865	10,950	620	99,462
Coyote Pumping Plant Warehouse	-	-	-	416	216	2,595	-	-	-	3,227
Dam Safety Program Seismic Stability	9,899	2,389	1,276	6,524	-	-	-	-	-	18,812
San Luis Reservoir Low Point Improvement	15,247	-	1,290	-	-	-	-	-	-	15,247
Small Capital Improvements, San Felipe Reach 1-3	n/a	4,659	-	1,547	923	5,315	585	1,439	24,602	39,070
5-Year Pipeline Rehabilitation	4,133	4,931	-	5,794	4,609	4,922	-	-	-	24,389
Alamitos Diversion Dam Improvements	2,962	-	2,124	-	-	-	309	-	-	3,271
Coyote Diversion Dam Improvements	709	-	387	-	-	601	1,187	-	-	2,497
Main & Madrone Pipelines Restoration	-	-	-	-	-	3,269	-	-	-	3,269
Pacheco/Santa Clara Conduit Right of Way Acquisition	1,555	1,009	1,418	178	64	105	-	-	-	2,911
Penitencia Delivery Main/Force Main Seismic Retrofit	1,134	761	216	672	11,118	-	-	-	-	13,685
SCADA Remote Architecture & Communications Upgrade	-	370	345	-	28	405	818	776	3,780	6,177
Small Capital Improvements, Raw Water Transmission	n/a	43	-	468	191	-	124	-	3,196	4,022
Small Capital Improvements, Treated Water Transmission	n/a	-	-	-	56	-	-	91	-	147
TC HCP Implementation Fund	-	-	-	-	1,604	4,472	4,112	14,423	120,497	145,108
Fluoridation at WTPs	-	357	-	791	5,074	512	153	-	-	6,887
Infrastructure Reliability	385	1,314	125	474	425	1,490	1,550	4,084	12,065	21,787
IRP2 WTP Ops Bldgs Seismic Retrofit	4,314	11,705	-	2,894	521	101	-	-	-	19,535
PWTP Clearwell Recoating & Repair	1,594	-	-	2,922	375	48	-	-	-	4,939
PWTP Water Pumps Modification	2,745	291	2,069	151	346	85	-	-	-	3,618
RWTP FRP Residuals Management Modifications	3,891	21,125	730	1,038	919	264	-	-	-	27,237
RWTP Reliability Improvement	11,190	7,923	7	46,394	59,532	54,818	42,489	146	-	222,492
RWTP Treated Water Valves Upgrade	1,828	6,117	712	130	617	79	-	-	-	8,771
Small Capital Improvements, Water Treatment	n/a	3,299	-	2,175	1,835	1,830	1,540	3,651	32,095	46,425
STWTP Incompatible Materials	12,412	1,183	42	157	-	-	-	-	-	13,752

FY 2013-14 Funds to be reappropriated

CIP Project Funding Schedule for Water Utility Enterprise Fund ($K) (cont'd)

PROJECT NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
Water Protection	9,670	729	-	62	-	-	-	-	-	10,461
Silicon Valley Advanced Water Purification Center	67,424	3,124	-	1,477	-	-	-	-	-	72,025
South County Recycled Water Pipeline	10,026	4,847	-	8,212	8,933	456	-	-	-	32,474
Water Supply Infrastructure Master Plan Implementation	-	-	-	-	-	-	-	16,030	430,907	446,937
Wolfe Road Recycled Water Pipeline	-	800	146	9,808	1,866	242	-	-	-	12,716
Jacques Gulch Restoration	5,628	-	230	7	-	-	-	-	-	5,635
FAHCE Stevens Creek Fish Passage Enhancement - 90%	765	-	-	-	1,253	2,658	-	-	-	4,676
SCW Implementation Fund-Regionally Significant Habitat Land Acquisition	-	-	-	-	600	624	649	675	8,388	10,936
Water Utility Computer Network Modernization	-	-	-	473	-	-	-	-	-	473
TOTAL	184,726	95,805	12,076	107,707	136,168	147,012	178,114	95,715	636,277	1,581,524

FY 2013-14 Funds to be reappropriated

Project Funding Schedule for Watershed and Stream Stewardship Fund ($K)

PROJECT NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
Palo Alto Flood Basin Structure Improvements	-	343	33	473	4,823	-	-	-	-	5,639
Permanente Creek, SF Bay to Foothill Expressway	17,541	-	177	-	-	-	-	-	-	17,541
San Francisquito Creek, SF Bay thru Searsville Dam	4,918	-	803	-	-	-	-	-	-	4,918
San Francisquito Creek, Early Implementation	1,697	-	72	-	-	-	-	-	-	1,697
San Tomas Creek, Quito Road Bridge Replacement	292	-	-	99	173	28	-	-	-	592
Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd	39,415	4,946	-	27,812	8,605	640	15	12	63	81,508
Improvements at Cunningham Park	885	1,832	1,629	1,741	379	1,386	351	304	44	6,922
Lower Penitencia Ck Improvements, Berryessa to Coyote Cks.	1,128	1,784	371	1,895	1,698	45	23	-	-	6,573
Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	86,770	104	638	4,730	149	-	-	-	-	91,753
Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps	8,970	-	334	-	-	-	-	-	-	8,970
Upper Penitencia Ck, Coyote Ck-Dorel Dr, LERRDs	8,464	80	4,937	-	-	-	-	-	-	8,544
Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	4,695	6,931	7,419	-	-	-	-	-	-	11,626
Llagas Creek–Upper, R5,6,&7b	-	-	-	-	-	24,408	-	-	-	24,408
San Francisco Bay Shoreline	11,172	337	138	1,016	-	-	-	-	-	12,525
San Francisco Bay Shoreline - Contribution	490	-	-	-	-	-	-	-	-	490
Shoreline Early Implementation	359	-	-	-	-	-	-	-	-	359
Small Capital Improvements - Watersheds	-	-	-	700	700	700	700	700	-	3,500
SMP Mitigation, Stream and Watershed Land Preservation	8,633	2,495	1,172	3,076	-	-	-	-	-	14,204
Alviso Slough	5,942	2,337	3,427	-	8,568	427	468	414	25	18,181
FAHCE Stevens Creek Fish Passage Enhancement - 10%	85	-	-	-	139	295	-	-	-	520
SCW Implementation Fund-Regionally Significant Habitat Land Acquisition	-	-	-	-	600	624	649	675	8,388	10,936
TOTAL	201,456	21,189	21,150	41,542	25,834	28,553	2,206	2,105	8,520	331,405

FY 2013-14 Funds to be reappropriated

Project Funding Schedule for Safe, Clean Water and Natural Flood Protection Fund ($K)

PROJECT NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
IRP2 Additional Line Valves	-	-	-	-	-	-	-	-	12,900	12,900
Main & Madrone Pipelines Restoration	-	-	-	630	1,408	10,652	138	-	-	12,828
Permanente Creek, SF Bay to Foothill Expressway	17,041	19,074	12,843	9,013	2,271	309	58	122	-	47,888
San Francisquito Creek, SF Bay thru Searsville Dam	3,919	2,765	1,532	-	-	-	-	-	-	6,684
San Francisquito Creek - Construction, SF Bay to Middlefield Road	2,215	17,468	-	6,440	18,152	1,350	117	-	-	45,742
Sunnyvale East and West Channels	14,454	13,712	9,057	17,644	20,903	-	-	-	-	66,713
Guadalupe River–Upper, I-280 to Blossom Hill Road	102,183	-	14,567	386	28,383	7,222	8,274	13,804	20,484	180,736
Berryessa Creek, Calaveras Boulevard to Interstate 680	14,590	14,249	6,194	-	16,154	1,919	1,013	921	447	49,293
Coyote Creek, Montague Expressway to Interstate 280	15,996	2,990	8,102	-	-	-	7,924	1,083	633	28,626
Upper Penitencia Ck, Coyote Ck-Dorel Dr, Corps	-	-	-	-	8,394	2,382	3,431	3,568	33,524	51,299
Llagas Creek–Upper, Reimbursable	9,057	32,275	74	337	-	-	-	-	-	41,669
Llagas Creek–Upper, Corps Coordination	2,572	1,110	32	15,375	51,434	5,531	-	-	-	76,022
Llagas Creek–Upper, Technical Studies	1,446	-	-	-	-	-	-	-	-	1,446
Llagas Creek–Upper, Design	15,675	2,096	-	936	-	-	-	-	-	18,707
San Francisco Bay Shoreline - EIA 11 Design & Partial Construction	-	-	-	6,239	1,727	4,270	4,365	4,461	4,560	25,622
San Francisco Bay Shoreline - Other EIAs Planning	-	600	-	233	3,225	1,834	-	-	-	5,892
Lake Almaden, Guadalupe Rv, Los Alamitos Ck Restoration Planning	815	314	-	696	561	-	-	-	-	2,386
South Bay Salt Ponds Restoration	-	188	-	329	221	229	1,993	2,098	-	5,058
SCW Implementation Fund-Comer Debris Basin	-	-	-	-	-	-	291	1,133	233	1,657
SCW Implementation Fund-Creek Bank Stability	-	-	-	-	-	-	4,278	4,540	6,116	14,934
SCW Implementation Fund-Ogier Ponds Separation from Coyote	-	-	-	-	2,025	1,843	7,719	1,797	-	13,384
SCW Implementation Fund-Regionally Significant Habitat Land Acquisition	-	-	-	-	600	624	649	675	8,388	10,936
Singleton Road Fish Passage Improvements	-	-	-	339	414	236	2,227	49	104	3,369
TOTAL	199,963	106,841	52,401	58,597	155,872	38,401	42,477	34,251	87,389	723,791

FY 2013-14 Funds to be reappropriated

Project Funding Schedule for General Fund ($K)

PROJECT NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
Almaden and Winfield Campus, Small Capital Improvements	n/a	2,080	-	2,080	2,089	2,135	2,182	2,231	24,961	37,758
Headquarters Operations Building	-	-	-	219	799	2,314	13,273	-	-	16,605
PeopleSoft System Upgrade & Expansion	-	4,099	-	-	-	-	-	-	-	4,099
Winfield Capital Improvements	125	1,560	761	7,577	622	-	-	-	-	9,884
TOTAL	125	7,739	761	9,876	3,510	4,449	15,455	2,231	24,961	68,346

FY 2013-14 Funds to be reappropriated

Project Funding Schedule for Information Technology Fund ($K)

PROJECT NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
Campus Computer Network Modernization	-	-	-	1,145	-	-	-	-	-	1,145
IT Disaster Recovery	-	-	-	208	371	270	-	-	-	849
PeopleSoft System Upgrade & Expansion	-	-	-	1,563	419	710	292	-	-	2,984
TOTAL	-	-	-	2,916	790	980	292	-	-	4,978

FY 2013-14 Funds to be reappropriated

CIP Funding Schedule Summary for All Funds ($K)

FUND NAME	Through FY13	FY14	FY14 Unspent	FY15	FY16	FY17	FY18	FY19	FY20-29	TOTAL
Water Utility Enterprise	184,726	95,805	12,076	107,707	136,168	147,012	178,114	95,715	636,277	1,581,524
Watershed Stream Stewardship	201,456	21,189	21,150	41,542	25,834	28,553	2,206	2,105	8,520	331,405
Safe, Clean Water and Natural Flood Protection	199,963	106,841	52,401	58,597	155,872	38,401	42,477	34,251	87,389	723,791
General	125	7,739	761	9,876	3,510	4,449	15,455	2,231	24,961	68,346
Information Technology	-	-	-	2,916	790	980	292	-	-	4,978
TOTAL	586,270	231,574	86,388	220,638	322,174	219,395	238,544	134,302	757,146	2,710,043

FY 2013-14 Funds to be reappropriated

WATER SUPPLY CAPITAL PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = **0**

Project Name Here

RAW SCORE = 0

PRIMARY OBJECTIVE (75%)

Water Supply (E 2) Impact = ; Probability = 0.00

A ☐ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements. **(H+, H-, M+, M-, L)**

B ☐ Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. **(H, M, L)**

C ☐ Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. **(I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))**

SOCIAL FACTORS (7.5%)

Social Factor - Check if applicable 0.00

☐ Promotes Emergency Recovery

Positive Interaction (E 4) - Check all that apply

☐ With the Community ☐ With other agencies

ENVIRONMENTAL FACTORS (7.5%)

Water Quality (E 3.2) - Check if applicable 0.00

☐ Promotes drinking water quality

Natural Resources Sustainability (E 3.2) - Check all that apply

☐ Promotes water use efficiency ☐ Promotes energy efficiency or incorporates energy efficient features

☐ Promotes stream management

ECONOMIC FACTORS (10%)

Lifecycle costs are minimized - Check One 0.00

☐ Annual cost savings of more than $250,000

☐ Annual cost savings of $50,000 to $250,000

☐ Annual cost savings of less than $50,000 (reference ½ PY)

Funding Available from Other Agencies - Check One

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

FLOOD PROTECTION PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = **0**

Project Name Here

RAW SCORE = 0

PRIMARY OBJECTIVE (60%)

Flood Protection (E 3) Impact = ; Probability = 0.00

A ☐ Project restores existing watershed infrastructure to its intended level of flood protection.

B Project balances environmental quality and protection from flooding in a cost effective manner.

Average annual flood damages (13.5 pts.)	_____	$K
Size of developed area (2 pts.)	_____	Acres
Upstream and downstream improvements (1.3 pts.)	_____	Y/N
Rehabilitated reach (1.8 pts.)	_____	Y/N
Proposed development (1 pt.)	_____	Acres
Downstream reach (1.3 pts.)	_____	Y/N
Maintenance cost (1.4 pts.)	_____	per Mile
Multipurpose use (1.5 pts.)	_____	Miles
Flood insurance costs (1.6 pts.)	_____	$
Historical flood areas (1.6 pts.)	_____	Acres

SOCIAL FACTORS (10%)

Positive Interaction (E 4) - Check all that apply 0.00

☐ With the Community ☐ With other agencies

Good Neighbor (E 4) - Check all that apply

☐ Graffiti removal or Prevention Features

☐ Trash removal features (vortex weirs)

☐ Improves esthetics of project location

ENVIRONMENTAL FACTORS (15%)

Ecological Function (E 3.2) - Check all that apply 0.00

☐ Fish Barrier Removal / Structural improvement to fish habitat ☐ Upland Habitat Protection/Preservation

☐ Riparian Habitat (planting, setback or protect in place) ☐ Wetland Habitat Protection/Preservation

☐ SRA Plantings or Improved water temperature ☐ Hardscape Reduction

Water Quality (E 3.2) - Check all that apply

☐ Storm Water Treatment ☐ Provides opportunity for recharge

☐ TMDL Improvements

Trails & Open Space (E3.3) - Check all that apply

☐ Trail friendly features ☐ Open Space Protection / Preservation

☐ Provides/Improves Bicycle Commute Route

ECONOMIC FACTORS (15%)

Funding Available from Other Agencies - Check One 0.00

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

WATER RESOURCES STEWARDSHIP PROJECTS

Priority Ranking Criteria for Commitments and Environmental Enhancement Projects

PRIORITY SCORE = 0

Project Name Here

RAW SCORE = 0

PROJECT OBJECTIVES	**Water Resources Stewardship (E 4)** - Mark One	0.00
	Proposed project supports watershed stewardship and includes 1 of 5 objectives: 1 - creation or restoration of tidal or riparian habitat 2 - improvement of endangered species habitat 3 - fish barrier removal/fish ladder installation 4 - removal of invasive species 5 - planting of native species.	
	☐ **HIGH** - Project supports more than 1 identified objective	15
	☐ **MEDIUM** - Project supports 1 of 5 identified objectives	10
	☐ **LOW** - Project does not support 1 of 5 identified objectives	7
ENVIRONMENTAL DESIRABILITY	Proposed project is appropriate for the area/habitat in which it is planned (based on some evidence provided). - Mark One	0.00
	☐ **HIGH** - Project demonstrates connectivity to adjacent habitats and bsaseline information is available to support selection of project location.	15
	☐ **MEDIUM** -	10
	☐ **LOW** - Project is a stand-alone project with no relation to adjacent habitat or baseline evidence that supports appropriateness of location for project.	5
CRITICAL NEED	Project fulfills a critical need as described by existing documents, plans, and reports on watershed stewardship in Santa Clara County. - Mark One	0.00
	☐ **HIGH** - Project fulfills a critical need	15
	☐ **MEDIUM** -	10
	☐ **LOW** - Project does not fulfill a critical need	5
GEOGRAPHIC DISTRIBUTION	Project provides planning for enhancements in an area where a lack of environmental enhancements can be demonstrated. - Mark One	0.00
	☐ **HIGH** - Project demonstrates that the project location is in need of enhancements due to lack of existing enhancements.	15
	☐ **MEDIUM** -	10
	☐ **LOW** - Project does not demonstrates that the project location is in need of enhancements due to lack of existing enhancements.	5
LIKELIHOOD OF PROJECT SUCCESS	Maintenance and monitoring copmponent identified for environmental enhancement activity. - Mark One	0.00
	☐ **HIGH** - Project includes specific details for the maintenance and monitoring component of the environmental enhancement activity.	15
	☐ **MEDIUM** - Project includes recognition that a maintenance and monitoring component is necessary for successful completion of the environmental enhancement activity.	10
	☐ **LOW** - Project does not include a maintenance and monitoring component for the environmental enhancement activitie(s)	5
COST EFFECTIVENESS	Cost to the District as a percentage of the total estimated enhancement planning project cost. - Mark One	0.00
	☐ **HIGH** - Project provides > 50% cost share (i.e., less District funding required)	15
	☐ **MEDIUM** - Project provides between 25% and 50% cost share	7
	☐ **LOW** - Project provides at least 25% cost share (i.e., more District funding required)	5
COMMUNITY INVOLVEMENT	Proposed project includes plans for outreach to the community. - Mark One	0.00
	☐ **HIGH** - Project includes a community outreach component	10
	☐ **MEDIUM** -	7
	☐ **LOW** - Project does not include a community outreach component.	5

WATER RESOURCES STEWARDSHIP PROJECTS

Priority Ranking Criteria for Stewardship Projects

PRIORITY SCORE = **0**

Project Name Here

RAW SCORE = 0

PRIMARY OBJECTIVE (60%)

Stewardship Projects Impact = ; Probability = 0.00

A ☐ Project restores a previously constructed environmental enhancement so that it can continue to provide the benefits for which it was created.

B ☐ Project creates Stewardship features to achieve stewardship commitments.

C ☐ Stewardship activities beyond the current commitment.

SOCIAL FACTORS (10%)

Positive Interaction (E 4) - Check all that apply 0.00

☐ With the Community

☐ With other agencies

Good Neighbor (E 4) - Check all that apply

☐ Graffiti removal or Prevention Features

☐ Trash removal features (vortex weirs)

☐ Improves esthetics of project location

ENVIRONMENTAL FACTORS (15%)

Ecological Function (E 3.2) - Check all that apply 0.00

☐ Fish Barrier Removal / Structural improvement to fish habitat

☐ Riparian Habitat (planting, setback or protect in place)

☐ SRA Plantings or Improved water temperature

☐ Upland Habitat Protection/Preservation

☐ Wetland Habitat Protection/Preservation

☐ Hardscape Reduction

Physical Stream Function (E 3.2) - Check all that apply

☐ Holistic Watershed Approach

☐ Geomorphologic Design Elements

☐ Erosion Control

☐ Sediment Source Reduction

Water Quality (E 3.2) - Check all that apply

☐ Storm Water Treatment (pervious pavement, green roofs, etc.)

☐ TMDL Improvements

☐ Hazardous Material Removal (Asbestos, Lead, Hydrocarbons, etc.)

Trails & Open Space (E3.3) - Check all that apply

☐ Trail friendly features

☐ Provides/Improves Bicycle Commute Route

☐ Open Space Protection / Preservation

ECONOMIC FACTORS (15%)

Lifecycle costs are minimized - Check One 0.00

☐ Annual cost savings of more than $250,000

☐ Annual cost savings of $50,000 to $250,000

☐ Annual cost savings of less than $50,000 (reference ½ PY)

Funding Available from Other Agencies - Check One

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

BUILDINGS & GROUNDS PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = **0**

Project Name Here

RAW SCORE = 0

PRIMARY OBJECTIVE (60%)

Buildings and Grounds (EL 3.4) Impact = ; Probability = 0.00

A ☐ Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards.

B ☐ Project enhances building infrastructure to address treatment of staff issues.

C ☐ Project positions the District to meet projected future space needs.

CLEANER OBJECTIVE (10%)

Positive Interaction (E 4) - Check all that apply 0.00

☐ With the Community

☐ With other agencies

Good Neighbor (E 4) - Check all that apply

☐ Graffiti removal or Prevention Features

☐ Trash removal features (vortex weirs)

☐ Improves esthetics of project location

GREENER OBJECTIVE (15%)

Natural Resources Sustainability (E 3.2) - Check all that apply 0.00

☐ Air Quality & Visibility Improvement

☐ Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)

☐ Renewable Energy Use

☐ Water Efficient Features: Plumbing fixtures, Landscaping, etc.

☐ Recycled Water, rain water or gray water utilized

☐ Construction Site Waste Management

☐ Recycle/Re-use Solid Waste

☐ Reduce Solid Waste Production

☐ Use of Recycled or Alternative Building Materials

Trails & Open Space (E3.3) - Check all that apply

☐ Trail friendly features

☐ Provides/Improves Bicycle Commute Route

☐ Open Space Protection / Preservation

LEANER OBJECTIVE (15%)

Lifecycle costs are minimized - Check One 0.00

☐ Annual cost savings of more than $250,000

☐ Annual cost savings of $50,000 to $250,000

☐ Annual cost savings of less than $50,000 (reference ½ PY)

Funding Available from Other Agencies - Check One

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

INFORMATION TECHNOLOGY PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = 0

Project Name Here

SCORE = 0

PRIMARY OBJECTIVE (60%)

Information Technology (EL 7.5) Impact = ; Probability = 0.00

A ☐ Project maintains existing mission critical software systems and/or IT infrastructure to improve reliability for business continuity.

B ☐ Project enhances mission critical software systems and/or IT infrastructure to improve user functionality.

C ☐ Project enhances mission critical software systems and/or IT infrastructure to meet projected future needs.

SOCIAL FACTORS (10%)

Positive Interaction (E 4) - Check all that apply 0.00

☐ With the Community

☐ With other agencies

Good Neighbor (E 4) - Check all that apply

☐ Graffiti removal or Prevention Features

☐ Trash removal features (vortex weirs)

☐ Improves esthetics of project location

ENVIRONMENTAL FACTORS (15%)

Natural Resources Sustainability (E 3.2) - Check all that apply 0.00

☐ Air Quality & Visibility Improvement

☐ Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)

☐ Renewable Energy Use

☐ Water Efficient Features: Plumbing fixtures, Landscaping, etc.

☐ Recycled Water, rain water or gray water utilized

☐ Construction Site Waste Management

☐ Recycle/Re-use Solid Waste

☐ Reduce Solid Waste Production

☐ Use of Recycled or Alternative Building Materials

ECONOMIC FACTORS (15%)

Lifecycle costs are minimized - Check One 0.00

☐ Annual cost savings of more than $250,000

☐ Annual cost savings of $50,000 to $250,000

☐ Annual cost savings of less than $50,000 (reference ½ PY)

Funding Available from Other Agencies - Check One

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

Appendix B - Project List By Priority

Water Supply Capital Projects in Order of Priority

FUNDED

Priority	Name
100	Dam Safety Program Seismic Stability
97	Anderson Dam Seismic Retrofit
92	Calero and Guadalupe Dams Seismic Retrofits
87	RWTP FRP Residuals Management Modifications
87	RWTP Treated Water Valves Upgrade
84	Penitencia Delivery Main/Force Main Seismic Retrofit
75	PWTP Water Pumps Modification
72	Alamitos Diversion Dam Improvements
72	Coyote Diversion Dam Improvements
72	Small Capital Improvements, Raw Water Transmission
70	Main & Madrone Pipelines Restoration
70	IRP2 WTP Ops Bldgs Seismic Retrofit
68	PWTP Clearwell Recoating & Repair
67	Small Capital Improvements, Water Treatment
66	Small Capital Improvements, San Felipe Reach 1-3
66	STWTP Incompatible Materials
65	Small Capital Improvements, Treated Water Transmission
63	TC HCP Implementation Fund
60	Pacheco/Santa Clara Conduit Right of Way Acquisition
56	5-Year Pipeline Rehabilitation
53	San Luis Reservoir Low Point Improvement - Planning
51	Fluoridation at WTPs
48	SCADA Remote Architecture & Communications Upgrade
46	RWTP Reliability Improvement
40	Almaden Dam Improvements
40	IRP2 Additional Line Valves
34	Water Protection
32	Wolfe Road Recycled Water Pipeline
30	Infrastructure Reliability
23	Coyote Pumping Plant Warehouse
17	Silicon Valley Advanced Water Purification Center
17	Water Supply Infrastructure Master Plan Implementation
16	South County Recycled Water Pipeline

Water Supply Capital Projects in Order of Priority (cont'd)

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

Priority	Name
100	Dam Seismic Retrofit at 2 Dams (Chesbro & Uvas)
66	SCADA Small Capital Improvements
64	Vasona Pumping Plant Upgrade
63	Santa Clara Tunnel Leakage and Pacheco Conduit Dewater
61	Coyote Pumping Plant ASD Replacement
44	San Luis Reservoir Low Point Improvement - Design and Construction
40	Land Rights - South County Recycled Water PL

Flood Protection Capital Projects in Order of Priority

FUNDED

Priority	Name
94	Permanente Creek, SF Bay to Foothill Expressway
93	Palo Alto Flood Basin Structure Improvements
81	Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River
80	Sunnyvale East and West Channels
79	San Francisquito Creek, SF Bay thru Searsville Dam
77	Guadalupe River–Upper, I-280 to Blossom Hill Road
67	Berryessa Ck, Lower Penitencia Ck to Calaveras Blvd
66	Llagas Creek–Upper, Buena Vista Avenue to Llagas Road
59	Coyote Creek, Montague Expressway to Interstate 280
58	Upper Penitencia Creek, Coyote Creek to Dorel Drive
56	Lower Silver Creek, I-680 to Cunningham (Reach 4-6)
54	Improvements at Cunningham Park
54	Lower Penitencia Ck Improvements, Berryessa to Coyote Cks.
54	San Tomas Creek, Quito Road Bridge Replacement
53	Berryessa Creek, Calaveras Boulevard to Interstate 680
40	Small Capital Improvements - Watersheds
32	San Francisco Bay Shoreline

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

32	SF Bay Shoreline Other EIAs Planning

Water Resources Stewardship Capital Projects in Order of Priority

FUNDED

Priority	Name
	Mitigation (All Mitigation projects are required per CEQA or other Regulation and therefore do not receive a score)
	SMP Mitigation, Stream and Watershed Land Preservation
	Environmental Commitment
85	Jacques Gulch Restoration
	Environmental Enhancement
57	South Bay Salt Ponds Restoration
35	Lake Almaden, Guadalupe Rv, Los Alamitos Ck Restoration Planning
	Stewardship
74	Singleton Road Fish Passage Improvements
65	FAHCE Stevens Creek Fish Passage Enhancement
40	SCW Implementation Fund
24	Alviso Slough Restoration

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

35	Lk Almaden/Guad Riv/Alamitos Ck Restoration - Construction

Appendix B - Project List By Priority

Buildings and Grounds Capital Projects in Order of Priority

FUNDED

Priority	Name
73	Almaden and Winfield Campus, Small Capital Improvements
65	Headquarters Operations Building
70	Winfield Capital Improvements

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

70	Fleet and Facility Annex Improvements

Information Technology Capital Projects in Order of Priority

FUNDED

41	IT Disaster Recovery
38	Campus Computer Network Modernization
38	Water Utility Computer Network Modernization
31	PeopleSoft System Upgrade & Expansion

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

N/A	None

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Appendix C - District Partnership Summary

Partnership Reimbursements are funds that are reimbursed by the District's partners after the District advances the needed funds. The following table identifies capital projects that are funded cooperatively with the District's partners through reimbursements.

Partnership Reimbursement

Reimbursements for Current Projects ($K)			Actuals																	
Project Number	Project Name	Agency	Thru FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	Total
91214007	San Luis Reservoir Low Point Improvement	Total	12,305	400	400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13,105
		DWR - Prop 13	12,259	400	400															13,059
		USBR	46																	46
91214010	Small Capital Improvements, San Felipe - Reach 1	Total	539	140	649	0	0	28	129	209	0	0	23	0	358	135	106	678	190	3,184
		San Benito Water Dist	539	140	649	0	0	28	129	209	0	0	23	0	358	135	106	678	190	3,184
92374005	SCADA Remote Architecture & Comm. Upg	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		San Benito Water Dist	0																	0
92144001	Pacheco/Santa Clara Conduit Right of Way Acquisition	Total	17	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
		San Benito Water Dist	17	2																19
93084011	Fluoridation at WTPs	Total	0	0	0	2,400	0	0	0	0	0	0	0	0	0	0	0	0	0	2,400
		The Health Trust	0			1,000														1,000
		First 5 of Santa Clara County	0			900														900
		California Dental Association Foundation	0			500														500
94084005	Water Protection	Total	16	13	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	41
		San Benito Water Dist	16	13	4	4	4													41
91184008	Silicon Valley Advanced Water Purification Center	Total	19,560	2,485	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22,045
		City of San Jose	8,500																	8,500
		DWR - Prop 50	2,935																	2,935
		DWR - Prop 84	0	2,485																2,485
		USBR - ARRA	8,125																	8,125
91094007s	South County Recycled Water Pipeline	Total	2,106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,106
		SCRWA	811																	811
		USBR - ARRA	1,295																	1,295
91244001	Wolfe Road Recycled Water Pipeline	Total	0	0	343	8,957	0	0	0	0	0	0	0	0	0	0	0	0	0	9,300
		Apple Computer	0			4,800														4,800
		Cal Water	0			1,500														1,500
		City of Sunnyvale	0		343	2,657														3,000
10284007s	San Francisquito Creek, SF Bay to Searsville Dam	Total	0	4,000	4,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,000
		San Francisquito Joint Powers Authority (DWR)	0	4,000	4,000															8,000
26154001s	Guadalupe River–Upper, I-280 to Blossom Hill Rd	Total	15,142	0	0	200	7,500	4,500	5,800	7,700	2,000	0	0	0	0	0	0	0	0	42,842
		State Subventions	11,357			200	7,500	4,500	5,800	7,700	2,000									39,057
		City of San Jose	3,785																	3,785
26174041s	Berryessa Ck, Calaveras Bvd to Interstate 680	Total	0	0	2,000	2,000	6,000	3,000	3,000	0	0	0	0	0	0	0	0	0	0	16,000
		State Subventions	0					3,000	3,000											6,000
		DWR - Prop 1E	0		2,000	2,000	6,000													10,000
40174004	Berryessa Ck, Lwr Penitencia Ck to Calaveras Bvd	Total	0	0	3,000	6,000	6,000	0	0	0	0	0	0	0	0	0	0	0	0	15,000
		DWR - Prop 1E	0		3,000	6,000	6,000													15,000
40334005	Lower Penitencia Ck Improvements, Berryessa to Coyot	Total	0	0	0	0	1,000	4,000	0	0	0	0	0	0	0	0	0	0	0	5,000
		DWR - Prop 1E	0				1,000	4,000												5,000
40264008s	Lower Silver Ck, 680 to Cunningham, Reimb (R4-6)	Total	23,305	0	8,732	13,000	6,500	1,000	1,000	0	0	0	0	0	0	0	0	0	0	53,537
		State Subventions	2,629		732	1,000	1,500	1,000	1,000											7,861
		DWR - Prop 1E	0		8,000	12,000	5,000													25,000
		NRCS-ARRA	20,676																	20,676
50284010	Llagas Creek–Lower, Capacity Restoration, Buena Vista	Total	142	0	0	0	5,000	0	0	0	0	0	0	0	0	0	0	0	0	5,142
		State Subventions	142				5,000													5,142
26174051s	Llagas Creek–Upr, Buena Vista Rd to Wright Ave	Total	4,858	2,648	7,000	13,000	12,000	6,500	0	0	0	0	0	0	0	0	0	0	0	46,006
		State Subventions	2,537	1,969	7,000	13,000	12,000	6,500												43,006
		City of Morgan Hill	2,321	679																3,000
26444002	San Francisco Bay Shoreline (EIA 1-10a)	Total	0	420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	420
		State Bond - DWR	0	420																420
91854002	Jacques Gulch Restoration	Total	362	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	362
		Santa Clara County	362																	362
		SUBTOTAL - Reimbursements from Current Projects	78,352	10,108	26,128	45,561	44,004	19,028	9,929	7,909	2,000	0	23	0	358	135	106	678	190	244,509

Partnership Reimbursement (cont'd)

Pending Reimbursements for Closed Projects	Agency	Thru FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	Total
91954001 Pacheco Pumping Plant ASD Replacement	**Total**	**3,839**	**238**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4,077**
	San Benito Water Dist	3,839	238																4,077
26104001s Calabazas Creek, Miller Ave to Wardell Rd	**Total**	**0**	**64**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**64**
	City of Saratoga	0	64																64
30154013s Guadalupe River–DT, I-880 to I-280	**Total**	**39,090**	**0**	**0**	**0**	**500**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**39,590**
	State Subventions	27,228				500													27,728
	City of San Jose	1,654																	1,654
	San Jose Redev Agency	10,208																	10,208
94084006 Microwave Telecommunications System	**Total**	**41**	**131**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**172**
	San Benito Water Dist	41	131																172
SUBTOTAL - Reimbursements for Closed Projects		**42,970**	**433**	**0**	**0**	**500**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**43,903**
TOTAL REIMBURSEMENTS		**121,322**	**10,541**	**26,128**	**45,561**	**44,504**	**19,028**	**9,929**	**7,909**	**2,000**	**0**	**23**	**0**	**358**	**135**	**106**	**678**	**190**	**288,412**

Appendix C - District Partnership Summary

Partnership Funding is funds that are made available by the District's partners, when needed. The following table identifies capital projects that receive partnership funding. This may occur through either cost sharing agreements or as in-kind services.

Partnership Funding

Project Number	Project Name	Amount ($K)	Partnering Agency
26154001s	Guadalupe River–Upper, Interstate 280 to Blossom Hill Road	136,571	U.S. Army Corps of Engineers
91854002	Jacques Gulch Restoration	4,000	County of Santa Clara
26174051s	Llagas Creek–Upper, Buena Vista Road to Wright Avenue	65,000	U.S. Army Corps of Engineers
00044026s	San Francisco Bay Shoreline	91,250	Primarily Corps, Coastal Conservancy, Fish & Wildlife, Wildlife Conservation
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	3,000	U.S. Army Corps of Engineers
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	1,500	County of San Mateo
91214007	San Luis Reservoir Low Point Improvement	8,000	U.S. Bureau of Reclamation
20194005	San Tomas Creek, Quito Road Bridge Replacement	300	City of Saratoga
20194005	San Tomas Creek, Quito Road Bridge Replacement	300	Town of Los Gatos
20194005	San Tomas Creek, Quito Road Bridge Replacement	4,115	CALTRANS
	TOTAL	$ 314,036	

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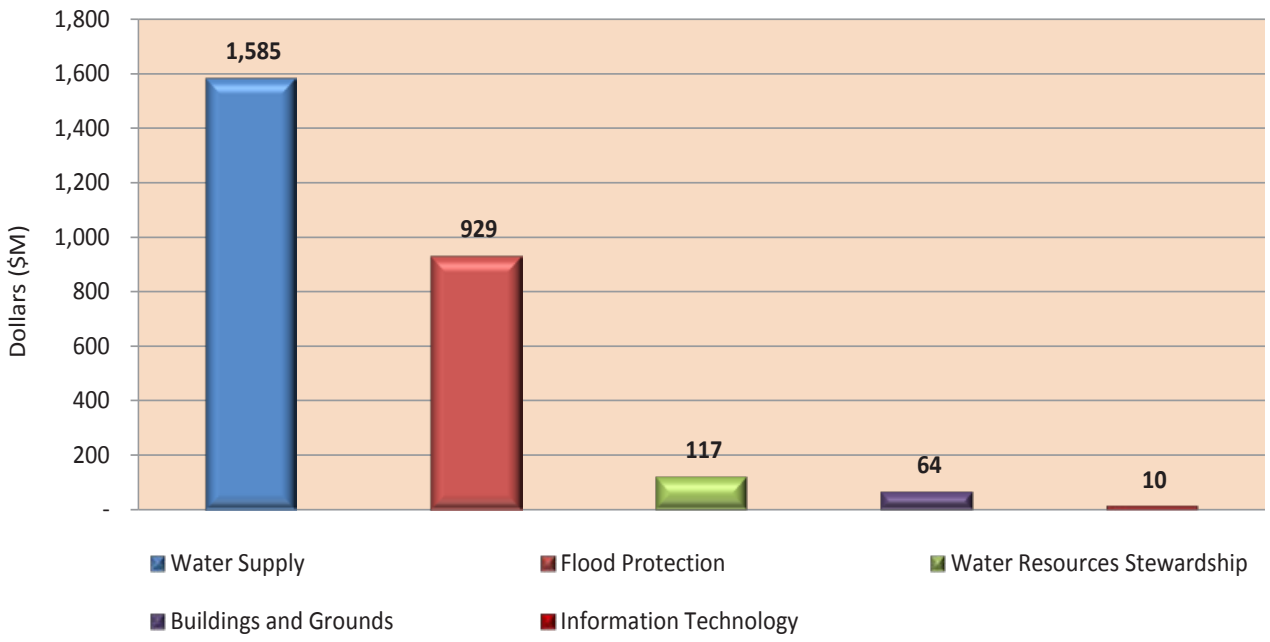
Appendix D - Summary of Capital Expenditures

Expenditure Schedule by Type of Improvement ($K)

	THRU FY13 (Actuals)	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25-29	TOTAL
Water Supply	161,346	100,946	115,897	136,515	155,514	178,533	95,040	43,595	44,120	111,741	36,934	44,067	360,333	1,584,580
Flood Protection	301,044	138,644	141,610	178,216	54,251	30,212	24,975	30,563	15,499	6,859	5,910	286	638	928,707
Water Resources Stewardship	18,285	4,088	6,624	17,477	7,561	18,923	12,056	8,530	2,243	2,277	2,368	2,463	13,760	116,655
Buildings and Grounds	104	2,900	10,637	3,510	4,449	15,455	2,231	2,280	2,314	2,363	2,413	2,464	13,127	64,247
Information Technology	-	4,099	3,389	790	980	292	-	-	-	-	-	-	-	9,550
TOTAL	480,779	250,677	278,157	336,508	222,755	243,415	134,302	84,968	64,176	123,240	47,625	49,280	387,858	2,703,739

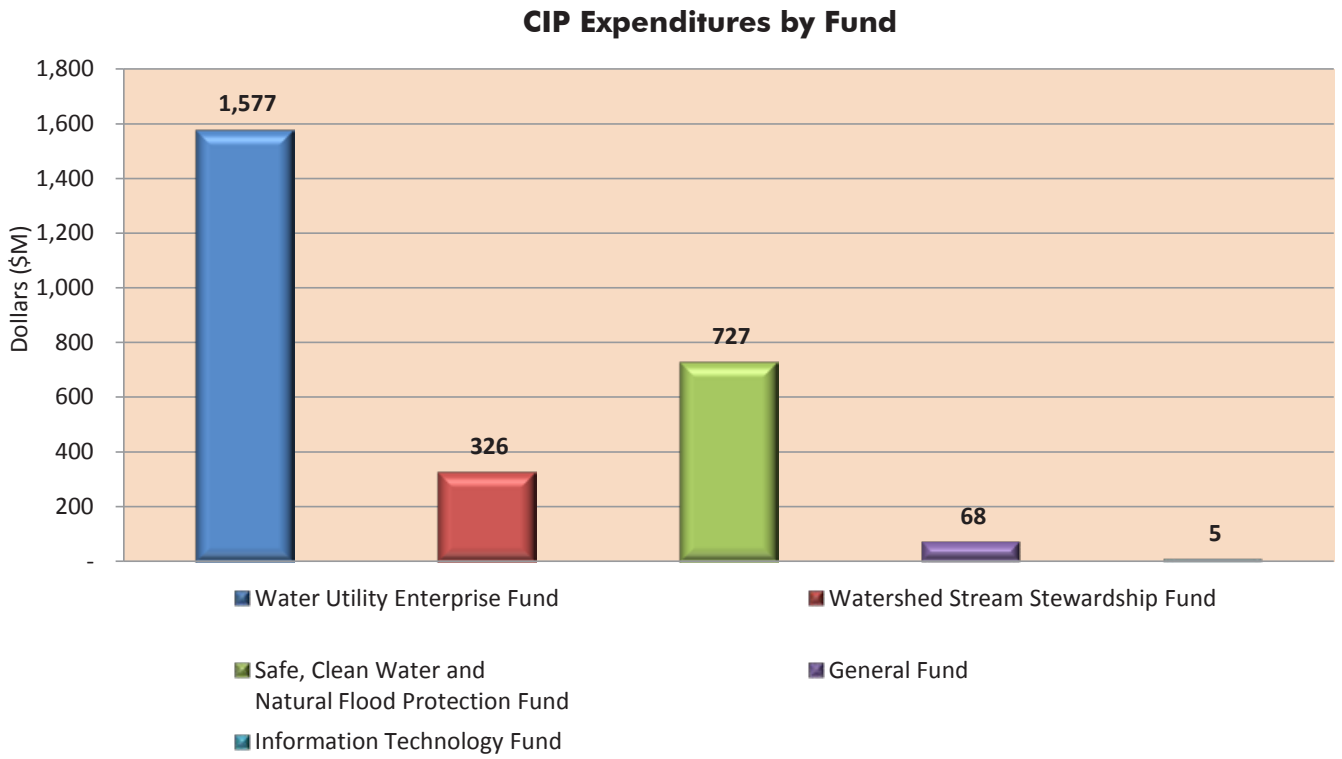
CIP Expenditures by Type of Improvement



Appendix D - Summary of Capital Expenditures

Expenditure Schedule by Fund ($K)

	THRU FY13 (Actuals)	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25-29	TOTAL
Water Utility Enterprise Fund	167,476	100,979	115,821	136,960	144,876	179,044	95,715	44,297	44,850	112,500	37,723	44,888	352,019	1,577,148
Watershed Stream Stewardship Fund	166,846	34,649	48,973	33,135	29,779	2,206	2,105	834	730	759	789	821	4,587	326,213
Safe, Clean Water and Natural Flood Protection Fund	146,353	108,050	99,810	162,113	42,671	46,418	34,251	37,558	16,282	7,618	6,699	1,107	18,125	727,055
General Fund	104	6,999	10,637	3,510	4,449	15,455	2,231	2,280	2,314	2,363	2,413	2,464	13,127	68,346
Information Technology	-	-	2,916	790	980	292	-	-	-	-	-	-	-	4,978
TOTAL	480,779	250,677	278,157	336,508	222,755	243,415	134,302	84,968	64,176	123,240	47,625	49,280	387,858	2,703,739



Appendix E - Glossary

Ad Valorem Tax
A tax based on value (e.g., a property tax).

Appropriation
An appropriation is a legal authorization granted by the Santa Clara County Board of Supervisors which allows the District to expend cash and incur obligations for specific purposes. An appropriation is usually limited in amount and the time it may be expended.

Assessment
The process of setting the official valuation of property for taxation; the valuation placed upon property as a result of this process.

Asset
A probable future economic benefit obtained or controlled by a particular entity as a result of past transactions or events. Examples of assets are cash, receivables, and equipment.

Benefit Assessment
Determination of the benefits derived from District activities within particular watersheds and levying a proportionate share of taxes to each parcel subject to voter-approved limitations.

Bonds
Bonds are a long-term source of debt that provides a source of borrowed monies that can be used to pay for specific capital facilities. Bonds are a written promise to pay a specified sum of money at a predetermined date or dates in the future, called the maturity date(s), together with periodic interest at a specific rate.

Capital Expenditure
Capital expenditures fall into several categories. In general, they should create assets or extend the useful lives of existing assets. The work product results in a long-term benefit greater than two years and for budgeting purposes involved a major expenditure of district resources greater than $50,000. They can be made with regard to tangible and intangible assets. The general categories of capital expenditures are: rehabilitation, major repairs, improvements/ betterments/ upgrades, replacements, expansions/ additions, and ancillary expenditures.

Capital Projects
Projects are budgeted within the Capital budget and fall within the definition of Capital Expenditures; which means they (1) create or extend the life of an asset, (2) their work products have a useful life of greater than two years, and (3) they involve an expenditure of District resources in excess of $50,000.

Certificates of Participation (COPs)
A security in the general form of a bond, which evidences a proportionate participation in a flow of lease or other payments between two parties.

CEQA
California Environmental Quality Act

CIP
Capital Improvement Plan

Cost Center
Cost Centers are separate financial accounting centers in which costs are accumulated because of legal and accounting requirements, the first two digits of a project number identifies the cost center.

DWR
State Department of Water Resources

EIR
Environmental Impact Report

Encumbrances
Commitments related to unperformed (executory) contracts for goods or services. Encumbrances represent the estimated amount of expenditures that will result if unperformed contracts in process are completed.

Appendix E - Glossary

Enterprise Fund
Enterprise Funds are used to account for operations including debt service (a) that are financed and operated in a manner similar to private business, where the intent of the government body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a accounting basis is financed or recovered primarily though user charges; or (b) where the governing body has determined that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control accountability, or other purposes.

Expenditure/Expense
Decreases in net financial resources. Expenditures include current operating expenses requiring the present or future of net current assets, debt service and capital outlays, and intergovernmental grants, entitlements, and shared revenues. The major expenditure categories used by the District are labor and overhead, land and structures, equipment, and debt service.

Facility
Defined as a creek, reservoir, dam, water treatment plant, pipeline, canal, etc.

Fixed Assets
Fixed Assets are defined as long-lived tangible assets such as automobiles, computers and software, furniture, communications equipment, hydrologic equipment, office equipment, and other equipment, with a value of $2,000 or more, or the combined value of like or related units (aggregate value) is greater than $5,000 if the unit value is less than $2,000.

Fiscal Year
A 12-month period to which the annual operating budget applies and at the end of which a government determines its financial position and the results of its operations. The District's fiscal year is July 1 through June 30.

Fund
A fiscal and accounting entity with a self-balancing set of accounts in which cash and other financial resources, all related liabilities and residual equities, or balances, and changes therein, are recorded and segregated to carry on specific activities or attain certain objectives in accordance with special regulations, restrictions or limitations.

General Fund
A fund used to account for major operating revenues and expenditures, except for those financial transactions that are required to be accounted for in another fund. General Fund revenues are derived primarily from property and other taxes.

Grants
Contributions or gifts of cash or other assets from another government entity to be used or expended for a specified purpose, activity, or facility.

Levy
(1. Verb) To impose taxes, special assessments, or service charges for the support of government activities; (2. Noun) The total amount of taxes, special assessments, or service charges imposed by a government agency.

Long-Term Debt
Debt with a maturity date of more than one year after the date of issuance.

One Percent Flood or 100 Year Flood
Has a 1% chance of occuring in a given year. Water District projects are usually designed for the 1% flood, a national standard established by the Federal Emergency Management Agency (FEMA).

Appendix E - Glossary

Operating Expenditure

Operating expenditures are system costs required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services.

Operating expenditures are costs necessary to maintain the systems in good operating condition. This includes the repair and replacement of minor property components. The American Waterworks Association (AWWA) says that these priority components should be smaller than a retirement unit; a retirement unit is a readily separable and separately useful item that is part of a larger assembly. The benefit and life of such repairs should be less than two years. Any repairs that recur on an annual basis are considered operating activities of a maintenance nature.

Operating expenditures are often separated into fixed and variable costs for purposes of understanding operating leverage and structuring service charge rates.

Operations

Expenditures required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services. Operations include work that is generally of an ongoing or recurring nature. Any District work that is not a project is, by definition, an Operation. Operations, although recurring, require close coordination and a high degree of management oversight; however, they can be accomplished without the application of the full range of tools and processes used for managing projects.

Projects

At the Santa Clara Valley Water District, a project is any undertaking which has (1) a beginning and an ending, (2) a one-time occurrence. Projects can require expenditure of capital or operating funds and, at the District, are called Capital or Operating Projects, accordingly. Project usually, but no always, relate to a District facility or facilities (a creek, a reservoir, a dam, a water treatment plant, a pipeline,, etc.). Projects may include studies, design, construction, maintenance, or implementation of systems such as Records Management or Financial Management System.

Revenue

Monies the District receives in exchange for services or sales provided. Revenue items include water sales, property tax revenues, benefit assessment revenues, interest income, intergovernmental reimbursement, and other.

Revenue Bonds

Bonds, whose principal and interest are payable exclusively from earnings of an enterprise fund. In addition to a pledge of revenues, such bonds sometimes contain a mortgage on the enterprise fund's property.

Reserve

An account used to indicate that a portion of a fund's assets are legally restricted for a specific purpose and is, therefore, not available for general appropriation.

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